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                                                         The present invention relates to antisense compounds targeted to a CC nucleic acid encoding human KOX 1 (zinc finger protein 10). The antisense CC compound comprises an antisense oligonucleotide that specifically CC hybridises with the nucleic acid and inhibits the expression of KOX 1. The antisense oligonucleotide is a chimeric oligonucleotide. The CC antisense oligonucleotide comprises at least one modified internucleoside CC linkage, preferably a phosphorothioate linkage. It also comprises at least CC least one modified sugar moiety, preferably a 2'-O-methoxyethyl (2'-MOE) CC sugar moiety. The antisense oligonucleotide further comprises at least cone modified nucleobase, preferably a 5-methylytyosine. The antisense CC oligonucleotides are useful for the treatment of diseases such as CC hyperproliferative disorders, e.g. cancer, viral or bacterial infections, CC and diseases involving hyperactivation of an immune response. The present control of the present invention.
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hyperproliferative disorder; cancer; viral infection;
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                                standard; DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 4 A;
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                                                                                                                                                                                                                                                                                                              Conservative
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100.0%; Pred. No.
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RESULT 4
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Best Local
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Human; KOX 1; zinc finger protein 10; antisense therapy; hyperproliferative disorder; cancer; viral infection; bacterial infection; hyperactivation; immune response; c
                                                                         Human KOX 1
                                                                                                             15-APR-2004
                                                                                                                                                                                 ADI36744 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                         sequence represents a human KOX 1 DNA target sequence oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             hyperproliferative disorders, e.g. cancer, viral or bacterial infections, and diseases involving hyperactivation of an immune response. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 15; SEQ ID NO 110; 80pp; English.
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                                                                       DNA,
                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                       BP; 5 A;
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                                                                                                             (first
                                                                       antisense oligonucleotide #14.
                                                                                                                                                                                   DNA;
                                                                                                             entry)
                                                                                                                                                                                                                                                                                                                                                                                                                       3 C; 9 G;
   hyperactivation; immune response; cytostatic;
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ID ADIS673/C
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Best Local 9
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Human; KOX 1; zinc finger protein 10; antisense therapy; hyperproliferative disorder; cancer; viral infection; bacterial infection; hyperactivation; immune response; c:
                                                                                                                            Human KOX 1
                                                                                                                                                                                     15-APR-2004
                                                                                                                                                                                                                                                  ADI36731;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTTTCTCCCATCGAACCTTC
                                                                                                                         DNA, antisense oligonucleotide #1.
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/mod_ba
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   response; cytostatic;
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The antisense oligonucleotide is a chimeric oligonucleotide. The carrisense oligonucleotide comprises at least one modified internucleoside clinkage, preferably a phosphorothicate linkage. It also comprises at least one modified mucleobase oligonucleotide further comprises at least one modified nucleobase, preferably a 2'-O-methoxyethyl (2'-MOE) comparises oligonucleotide further comprises at least one modified nucleobase, preferably a 5-methylytosine. The antisense cligonucleotides are useful for the treatment of diseases such as conjugant modified nucleobase, preferably a 5-methylytosine. The antisense cligonucleotides are useful for the treatment of diseases such as conjugant properties and diseases involving hyperactivation of an immune response. The present confidence represents an antisense oligonucleotide used in the examples of the present invention.
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Best Local 9
   Human; KOX 1; zinc finger protein 10; antisense therapy; hyperproliferative disorder; cancer; viral infection; bacterial infection; hyperactivation; immune response; c
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                                                                                                                                                                                                                                                     ADI36809;
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         response; cytostatic;
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Best Local
                                                                                                                      Human; KOX 1; zinc finger protein 10; antisense therapy; hyperproliferative disorder; cancer; viral infection; bacterial infection; hyperactivation; immune response; cytostatic; virucide; antibacterial; immunosuppressive; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The antisense oligonucleotide is a chimeric oligonucleotide. The antisense oligonucleotide comprises at least one modified internucleoside linkage, preferably a phosphorothioate linkage. It also comprises at least one modified sugar moiety, preferably a 2'-O-methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further comprises at least one modified nucleobase, preferably a 5-methylcytosine. The antisense oligonucleotides are useful for the treatment of the such as hyperproliferative disorders, e.g. cancer, viral or bacterial infections, and diseases involving hyperactivation of an immune response. The present sequence represents a human KOX 1 DNA target sequence for an antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention relates to antisense compounds targeted to a nucleic acid encoding human KOX 1 (zinc finger protein 10). The antiser compound comprises an antisense oligonucleotide that specifically hybridises with the nucleic acid and inhibits the expression of KOX 1.
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 17-JUN-2002; 2002US-00173817.
                                                                                                                                                                                                    Human KOX 1 DNA target sequence #5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      oligonucleotide.
                                18-DEC-2003
                                                                                            Homo sapiens.
                                                                                                                                                                                                                                   15-APR-2004
                                                                                                                                                                                                                                                                                                 ADI36813 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      involving hyperactivation of an immune response.
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                                                                                                                                                                                                                                  (first entry)
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Pred. No.
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RESULT 8
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                                                                                                                                                                                                                                                                                    Human; KOX 1; zinc finger protein 10; antisense therapy; hyperproliferative disorder; cancer; viral infection; bacterial infection; hyperactivation; immune response; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sequence represents a human oligonucleotide.
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                              18-DEC-2003.
                                                              US2003232438-A1.
                                                                                                                                                                                         modified_base
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                                                                                         /mod_base= OTHER
/mote= "This oligonucleotide has a phosphorothioate
backbone and 2'-methyoxyethyl (2'-MOE) wings at the 5'
and 3' ends, which are 5 nucleotides in length at each
end. All cytidine residues are 5-methylcytidines"
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17-JUN-2002; 2002US-00173817.

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Best Local S
Matches 20
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36742/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               hyperproliferative disorder; cancer; viral infection; bacterial infection; hyperactivation; immune response; cytostatic; virucide; antibacterial; immunosuppressive; phosphorothicate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; KOX 1; zinc finger protein 10; antisense therapy; hyperproliferative disorder; cancer; viral infection; bacterial infection; hyperactivation; immune response; c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 15;
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   17-JUN-2002; 2002US-00173817
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                                                                                                                                                                                                                     /note = "This oligonucleotide has a phosphorothicate backbone and 2'.methyoxyethyl (2'.-MCE) wings at the and 3' ends, which are 5 nucleotides in length at each and 1'. The state of the s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                   _base= OTHER
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Pred. No.
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29;
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XX Homo s
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; KOX 1; zinc finger protein 10; annisense therapy; hyperproliferative disorder; cancer; virmal infection; bacterial infection; hyperactivation; immune response; cytostatic; virucide; antibacterial; immunosuppressive; phosphorothioate; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 20 BP; 6 A; 8 C; 3 G; 3 T; 0
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                                                                                                                                   US2003232438-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGTGAATGGAGTCGCGTTCT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                             /mod_base= OTHER /mod_base= OTHER /mode= "This oligonucleotide has a phosphorothioate backbone and 2'-methyoxyethyl (2'-MOE) wings at the backbone and 2'-methyoxyethyl (2'-MOE) wings at the and 3' ends, which are 5 nucleotides in length at ea
                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
1. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antisense oligonucleotide
                                                                                                                                                                                                  All cytidine residues are 5-methylcytidines"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <u>.</u>.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 20;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antisense compounds targeted to
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0,
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17-JUN-2002; 2002US-00173817

18-DEC-2003.

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RESULT 11
ADM9320/C
ID ADM932
XX ADM
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Matches
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention relates to antisense compounds targeted to a nucleic acid encoding human KOX 1 (zinc finger protein 10). The antisense compound comprises an antisense oligonucleotide that specifically hybridises with the nucleic acid and inhibits the expression of KOX 1. The antisense oligonucleotide is a chimeric oligonucleotide. The antisense oligonucleotide is a chimeric oligonucleotide internucleoside linkage, preferably a phosphorothioate linkage. It also comprises at least one modified sugar molety, preferably a 2'-O-methoxyethyl (2'-MOE) sugar molety. The antisense oligonucleotide further comprises at least one modified nucleobase, preferably a 5-methylcycosine. The antisense oligonucleotides are useful for the treatment of diseases such as hyperproliferative disorders, e.g. cancer, viral or bacterial infections, and diseases involving hyperactivation of an immune response. The present the present an antisense oligonucleotide used in the examples of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; ss; antisense; KOX-1; zinc finger protein 10; chromosome 12q13-qter; hyperproliferative disorder; cancer; bacterial infection; viral infection; immune response.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human KOX-1 antisense oligonucleotide ISIS206100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADM93204 standard; DNA; 20 BP
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                                                                                                                 modified_base
                                                                                                                                                                                                                                modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                          modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17-JUN-2002; 2002US-00173817.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1023 GAGATTGACGCAGAGTGGGC 1042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ę
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                              /mod_base= OTHER
/note= "2'-methoxyethyl
|6..20
                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
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/note= "Phosphorothioate linkages and all cytidines
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mod
                                                                                                                                                                                                                                                           methylcytidines"
                                                                                         *tag=
                                                                                                                                                                                                     *tag= a
                                                                                                                                                                                                                                                                                                                                                     *tag= b
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%; ==
                                _base= OTHER
e= "2'-methoxyethyl residues"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  G; 5 T; 0 U; 0
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                                                                                                                                                  residues"
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RESULT 12
ADM93254
ID 3254
ID 3254
ADM93354
AC ADM93
XX ADM93
XX ADM93
XX Chuman
XX Chrom
XW 
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i.e. an antisense oligonuclectide. Also included are inhibiting the expression of KOX 1 in cells or tissues by contacting the cells or tissues with the compound, treating an animal having a disease or condition associated with by KOX 1 administering to the animal a therapeutic or prophylactic amount of the compound and screening an antisense compound by contacting a preferred target region of a nucleic acid molecule encoding KOX 1 with one or more candidate antisense compound, composition and methods are useful for treating diseases or conditions associated with KOX 1, such as hyperproliferative disorders (e.g. cancer), conditions arising from bacterial or viral infection, or conditions involving hyperactivation of an immune response. They are also useful in research and diagnostics. The present sequence is an antisense oligonucleotide targeting human KOX-1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                 Human; ss; antisense; KOX-1; zinc finger protein 10; chromosome 12q13-qter; hyperproliferative disorder; bacterial infection; viral infection; immune respons
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(FREI/)
                                                                                                                        US2004087536-A1
                                                                                                                                                                                                                                                                                                                                                                                Human KOX-1
                                                                                                                                                                                                                                                                                                                                                                                                                                           29-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADM93254;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADM93254 standard; cDNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20 BP; 3 A; 9 C; 3 G; 5 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Dobie KW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17-JUN-2002; 2002US-00173817
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                                                                                                                                                                                          sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20 GAGATTGACGCAGAGTGGGC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
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                                                                                                                                                                                                                                                                                                                                                                             cDNA, antisense target sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 20; pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 1; Length 20; 29;
                                                                                                                                                                                                                                                                                                                                                                                #2
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                                                                                                                                                                                                                                                                                     cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
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19-AUG-2003; 2003US-00643432.

06-MAY-2004

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RESULT 13
ADM93249
ID ADM93
XX
AC ADM9:
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Best Local 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; ds; antisense; KOX-1; zinc finger protein 10; chromosome 12q13-qter; hyperproliferative disorder; cabacterial infection; viral infection; immune response:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     to, and which specifically hybridises with a nucleic acid molecule encoding KOX 1 (also known as zinc finger protein 10, whose gene is located on chromosome 12q13-qter), and inhibits the expression of KOX 1, i.e. an antisense oligonucleotide. Also included are inhibiting the expression of KOX 1 in cells or tissues by contacting the cells or
                                                                                                           17-JUN-2002; 2002US-00173817
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human KOX-1 gene, antisense target sequence #1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20 BP; 4 A; 5 C; 3 G; 8 T; 0 U; 0 Other;
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                                                                                                                                                                              19-AUG-2003; 2003US-00643432.
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                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human KOX-1 cDNA, antisense target sequence #1.
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                                                                                                 Dobie KW, Freier SM;
                                                                                                                                                                                                                                                            17-JUN-2002; 2002US-00173817
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100.0%; Pred. No.
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WPI; 2004-364533/34.

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RESULT 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 compounds and selecting for one or more candidate antisense compounds that inhibit the expression of a nucleic acid encoding KOX 1. The compound, composition and methods are useful for treating diseases or conditions associated with KOX 1, such as hyperproliferative disorders (e.g. cancer), conditions arising from bacterial or viral infection, or conditions involving hyperactivation of an immune response. They are also useful in research and diagnostics. The present sequence is a target
  19-AUG-2003; 2003US-00643432.
                                                                                                                                                                                                     modified_base
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/note= "2'-methoxyethyl
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-methylcytidines"
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= "2'-methoxyethyl residues"
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RESULT 16
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                             antisense oligonucleotide ISIS206079
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8 A;
/*tag= a
/mod_base= OTHER
/note= "2'-methoxyethyl residues"
                                                                                          /note= "Phosphorothioate linkages and all cytidines-methylcytidines"
                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3
                                                                                                                                            base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3 C; 5 G; 4 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                80pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 20;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB
29;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
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0

0;

Gaps

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Length 20 Indels

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RESULT 17
ADM93171/c
ID ADM931
XX
AC ADM931
XX
DT 29-JUL
XX
DT 29-JUL
XX
CHUMAN
CHOMO
KW HUMAN;
KW Chromo
KW bacter
XX
OS Homo 8
XX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CC encoding KOX 1 (also known as zinc finger protein 10, whose gene is CC located on chromosome 12q13-qter), and inhibits the expression of KOX 1, (also known as zinc finger protein 10, whose gene is CC i.e. an antisense oligonucleotide. Also included are inhibiting the CCC expression of KOX 1 in cells or tissues by contacting the cells or CC cissues with the compound, treating an animal having a disease or CC condition associated with by KOX 1 administering to the animal a CCC therapeutic or prophylactic amount of the compound and screening an CCC antisense compound by contacting a preferred target region of a nucleic CC acid molecule encoding KOX 1 with one or more candidate antisense compounds and selecting for one or more candidate antisense compounds (compound, composition and methods are useful for treating diseases or CC conditions associated with KOX 1, such as hyperproliferative disorders (e.g. cancer), conditions arising from bacterial or viral infection, or CC conditions involving hyperactivation of an immune response. They are also CCC oligonucleotide targeting human KOX-1.
                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    modified_base
                                                                         Human; ss; antisense; KOX-1; zinc finger protein 10; chromosome 12q13-qter; hyperproliferative disorder; cancer;
                                                                                                                                                                 29-JUL-2004
                                                                                                                                                                                                                                     ADM93171 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New antisense oligonucleotides that inhibit the expression of the zinc finger transcriptional repressor KOX 1, useful for treating conditions such as cancer, and hyperactivation of an immune response.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17-JUN-2002; 2002US-00173817
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                                                                                                                                                                                                  ADM93171;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 9 A; 6 C; 4 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2004-364533/34.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          19-AUG-2003; 2003US-00643432
                      Homo sapiens
                                                        bacterial infection; viral infection;
                                                                                                                          Human KOX-1 antisense oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      invention relates to a compound 8-80 nucleobases in length targeted and which specifically hybridises with a nucleic acid molecule
                                                                                                                                                                                                                                                                                                                                             706 TGGAGTCGCGTTCTCTGTTT 725
                                                                                                                                                                                                                                                                                                                           20
                                                                                                                                                                                                                                                                                                                                                                                                 20;
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                                                                                                                                                                                                                                                                                                                             TGGAGTCGCGTTCTCTGTTT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 25; 80pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                               (first entry)
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/*tag= C
/mod_base= OTHER
/note= "2'-methoxyethyl residues"
                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                  1.4%;
                                                                                                                                                                                                                                        ВP
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                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                              ISIS206067
                                                                                                                                                                                                                                                                                                                                                                                                               DB 1; Length 20; 29;
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RESULT 18
ADM93182/c
ID ADM93
XX
AC ADM93
XX

ADM93182 standard; DNA;

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ADM93182

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                                                                                                                                                  CC to, and which specifically hybridises with a nucleic acid molecule cencoding KOX 1 (also known as zinc finger protein 10, whose gene is CC located on chromosome 12q13-qter), and inhibits the expression of KOX 1, i.e. an antisense oligonucleotide. Also included are inhibiting the expression of KOX 1 in cells or tissues by contacting the cells or CC tissues with the compound, treating an animal having a disease or CC condition associated with by KOX 1 administering to the animal a CC antisense compound by contacting a preferred target region of a nucleic acid molecule encoding KOX 1 with one or more candidate antisense CC compound, composition and methods are useful for treating those see or CC conditions associated with KOX 1, such as hyperproliferative disorders CC conditions associated with KOX 1, such as hyperproliferative disorders CC conditions involving hyperactivation of an immune response. They are also cuseful in research and diagnostics. The present sequence is an antisense CC coligonucleotide targeting human KOX-1.
                                                             Matches
                                                                            Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New antisense oligonucleotides that inhibit the expression of the zinc finger transcriptional repressor KOX 1, useful for treating conditions such as cancer, and hyperactivation of an immune response.
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                                                                                                                          Sequence 20 BP; 4 A; 3 C; 7 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 15; SEQ ID NO 13; 80pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2004-364533/34.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Dobie KW,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (DOBI/) DOBIE K W. (FREI/) FREIER S M.
                 1619 GGATAGCACAAATCCTCCCT 1638
                                                               20;
                                                                            Similarity 100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Freier SM
                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /*tag= c
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note= "Phosphorothioate linkages and all cytidines
methylcytidines"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         note= "2'-methoxyethyl residues'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    base= OTHER
e= "2'-methoxyethyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               _base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                          a compound 8-80 nucleobases in length targeted
                                                             <u>.</u>
                                                                              Score 20; DB 1; Length 20; Pred. No. 29;
                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      residues"
                                                               Indels
                                                               0
                                                             Gaps
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The invention relates to a compound 8-80 nucleobases in length targeted to, and which specifically hybridises with a nucleic acid molecule encoding KOX 1 (also known as zinc finger protein 10, whose gene is coated on chromosome 12q13-qter), and inhibits the expression of KOX 1, in calls or trisuses by contacting the cells or trisuses by contacting the cells or trisuses by contacting the cells or trisuses by contacting a disease or condition associated with by KOX 1 administering to the animal a cherapeutic or prophylactic amount of the compound and screening an antisense compound by contacting a preferred target region of a nucleic acid molecule encoding KOX 1 with one or more candidate antisense compounds and selecting for one or more candidate antisense compound, composition and methods are useful for treating diseases or conditions associated with KOX 1, such as hyperproliferative disorders (e.g. cancer), conditions are arising from bacterial or viral infection, or conditions involving hyperactivation of a numune response. They are also useful in research and diagnostics. The present sequence is an antisense
     Matches
                          Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New antisense oligonucleotides that inhibit the expression of the zinc finger transcriptional repressor KOX 1, useful for treating conditions such as cancer, and hyperactivation of an immune response.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; ss; antisense; KOX-1; zinc finger protein 10; chromosome 12q13-qter; hyperproliferative disorder; cancer; bacterial infection; viral infection; immune response.
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                                                                                                              Sequence
                                                                                                                                                                     oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 15; SEQ ID NO 24; 80pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (FREI/) FREIER S M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (DOBI/) DOBIE K W.
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  20;
                                                                                                              20 BP; 6
  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note= "
                                                                                                                                                                  targeting
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/note= "Phosphorothioate linkages and all cytidines are
.methylcytidines"
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1. .20
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'note= "2'-methoxyethyl residues"
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                                                                                                              A; 8 C; 3 G; 3 T; 0 U; 0 Other;
                          1.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    b
                                                                                                                                                                     human KOX-1.
0
                             Score 20; DB 1; Length 20; Pred. No. 29;
Mismatches
0
  Indels
0.
  Gaps
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700 GGTGAATGGAGTCGCGTTCT 719

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RESULT 19
ADM93184/c
ID ADM93184 standard; DNA;
        The invention relates to a compound 8-80 nucleobases in length targeted to, and which specifically hybridises with a nucleic acid molecule encoding KOX 1 (also known as zinc finger protein 10, whose gene is CC located on chromosome 12q13-qter), and inhibits the expression of KOX 1, in cells or tissues by contacting the cells or tissues with the compound, treating an animal having a disease or condition associated with by KOX 1 administering to the animal a cuberage tissues with the compound, treating an animal having a disease or conditions associated with by KOX 1 administering to the animal a cuberage tissues compound by contacting an apreferred target region of a nucleic acid molecule encoding KOX 1 with one or more candidate antisense compounds compound, composition and methods are useful for treating diseases or conditions associated with KOX 1, such as hyperproliferative disorders conditions associated with KOX 1, such as hyperproliferative disorders conditions and methods arising from bacterial or viral infection, or conditions arising from bacterial or viral infection, or
                                                                                                                                                                                                                                                                                                                                                                                                                                            (DOBI/)
(FREI/)
                                                                                                                                                                                                                                                                                                             New antisense oligonucleotides that inhibit the expression of the zinc finger transcriptional repressor KOX 1, useful for treating conditions such as cancer, and hyperactivation of an immune response.
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                                                                                                                                                                                                                                                                                 Example 15; SEQ ID NO 26; 80pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                             Dobie KW,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human KOX-1 antisense oligonucleotide ISIS206080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-JUL-2004
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conditions involving hyperactivation of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-AUG-2003; 2003US-00643432
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                                                                                                                                                                                                                                                                                                                                                                                                             Freier SM;
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16. .20
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/note= "2'-methoxyethyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /note= "Phosphorothioate linkages and all cytidines are
-methylcytidines"
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e= "2'-methoxyethyl residues"
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infection, or
a. They are also
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                       The invention relates to a compound 8-80 nucleobases in length targeted to, and which specifically hybridises with a nucleic acid molecule encoding KOX 1 (also known as zinc finger protein 10, whose gene is located on chromosome 12q13-qter), and inhibits the expression of KOX 1, i.e. an antisense oligonucleotide. Also included are inhibiting the expression of KOX 1 in cells or tissues by contacting the cells or tissues with the compound, treating an animal having a disease or condition associated with by KOX 1 administering to the animal a therapeutic or prophylactic amount of the compound and screening an antisense compound by contacting a preferred target region of a nucleic acid molecule encoding KOX 1 with one or more candidate antisense.
                                              compounds and selecting for one or more candidate antisense compounds that inhibit the expression of a nucleic acid encoding KOX 1. The compound, composition and methods are useful for treating diseases or conditions associated with KOX 1, such as hyperproliferative disorders (e.g. cancer), conditions arising from bacterial or viral infection, or conditions involving hyperactivation of an immune response. They are all useful in research and diagnostics. The present sequence is a target
                                                                                                                                                                                                                                                                                                                                                                                                                               New antisense oligonucleotides that inhibit the expression of the zinc finger transcriptional repressor KOX 1, useful for treating conditions such as cancer, and hyperactivation of an immune response.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; 88; antisense; KOX-1; zinc finger protein 10; chromosome 12q13-qter; hyperproliferative disorder; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 7 A; 1 C; 9 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  useful in research and diagnostics. The present sequence oligonucleotide targeting human \ensuremath{\mathsf{KOX-1}}.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Dobie KW, Freier SM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                bacterial infection; viral infection; immune response.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human KOX-1 cDNA, antisense target sequence #16.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADM93268;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADM93268 standard;
                                                                                                                                                                                                                                                                                                                                                                                               Example 15; SEQ ID NO 110; 80pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2004-364533/34.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17-JUN-2002; 2002US-00173817
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19-AUG-2003; 2003US-00643432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          06-MAY-2004.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PREIER S M.
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                                 human KOX-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cDNA; 20
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Pred. No.
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Sequence 20 BP;

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0 Other

RESULT 22 AAH48658/c

AAH48658

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21-SEP-2001

(first entry)

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RESULT 21
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                                             Matches
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Best Local (
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Best Local :
                                                                                                                        The present invention provides a method for identifying a set of extendible primers which can be used in the identification, typing and classification of genes. This can then be used to predict protein sequence and structure, in organ donation to match the organ with the receiver, and to identify bacteria in a sample. The method can be used type the human leukocyte antigen genes (HLA) and 16s rRNA genes in
                                                                                                                                                                                                                                         Identifying extendible primers for use in identification, or classification of a nucleic acid of an organism, allele or gene such as class 1/2 HLA comprises identifying all possible nucleotide sequences of
                                                                                                                                                                                                                                                                                                              Ulfendahl P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA sequence analysis; sequencing; protein sequence; protein structure; gene typing; organ donation; bacteria identification; 16s rRNA; HLA;
                                                                                        Sequence 25
                                                                                                                                                                                                        Claim 14; Page 42; 66pp; English
                                                                                                                                                                                                                                specific length.
                                                                                                                                                                                                                                                                                        WPI; 2000-679677/66.
                                                                                                                                                                                                                                                                                                                                                           26-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HLA HLA-B gene PCR primer #30
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                      1308 TTTTTTATTTTCAGAGACAGATCAT 1332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1023 GAGATTGACGCAGAGTGGGC 1042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           typing; organ donation;
n leukocyte antigen; PCR
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                                                        Similarity
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                                             Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            antigen; PCR primer; ss.
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Pred. No.
                                        Pred. No. 50;
0; Mismatches
                                                         Score 18.6;
Pred. No. 50;
                                                                                        15 T; 0 U;
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                                                                  Length 25;
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RESULT 23
AA092542/c
ID AA0925
XX AA0925
XX O6-MAR
XX Primer
XX Human;
KW 3b1; 3
KW immuno
KW polyme
XX Synthe
XX W09511
XX W9511
XX 19-OCT
PR 19-OCT
PR 26-APF
PR 19-SEE
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Best Local
19-OCT-1993;
26-APR-1994;
19-SEP-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This invention describes a novel aspartate/ornithine transcarbamylase 13 which has cytostatic, anti-HIV, antiinflammatory and immunostimulatory activity. (I) and encoded polynucleotide are applicable in diagnosis and treatment of malignant tumour, hasmopathy, HIV infection, immunological diseases and various inflammation. This sequence represents a PCR primer used in the amplification of the aspartate/ornithine transcarbamylase 13
                                                                                                                                                                     Human; Fab; variable chain; heavy; light; region; VH; VL; HIV; 3b1; 3b3; 3b4; 3b9; MT4; humanised; monoclonal antibody; MAb; immunoreaction; neutralisation; passive immunotherapy; PCR; amp polymerase chain reaction; PCR; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Aspartate and ornithine transcarbamylase 13 and encoded polynucleotide, applicable in diagnosis and treatment of malignant tumor, hemopathy, HIV infection, immunological diseases and various inflammation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mao
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Aspartate/ornithine transcarbamylase 13; cytostatic; anti-HIV; antiinflammatory; immunostimulatory; malignant tumour; haemopathy; HIV infection; immunological disease; inflammation; PCR primer; ss
                                                                                                                                                                                                                                           Primer 12h3-b
                                                                                                                                                                                                                                                                      06-MAR-1996
                                                                                                                                                                                                                                                                                                                            AAQ92542 standard; DNA; 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         described in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 3; Page 31; 37pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2001-425649/45
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unidentified.
                                                                                    27-APR-1995
                                                                                                             WO9511317-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local
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20; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                  GTGGTTAATCTATTTTTTTTATT 1316
                                                                                                                                                                                                                                                                                                                                                                                                    GTGGTTAATTTATTTTTTTTT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                24 BP; 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                     1.3%;
nilarity 87.0%;
Conservative
                                                                                                                                                                                                                                                                      (first entry)
93US-00139409.
94US-00233619.
94US-00308841.
                                                                                                                                                                                                                                           amplifies Fab
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                                                         94WO-US011907.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; 4 C; 1 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                             ВP
                                                                                                                                                                                                                                        MT4 from pMT4-3.
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Pred. No. 6
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AAH39959/c
ID AAH399
XX
AC AAH399
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AC AAH399
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SINGLE
XW Single
XW Single
XW SNDE;
XW Lesch
XW LOULE
XW POLYCY
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Single nucleotide polymorphism; SNP; single nucleotide primer extension; SNPE; genotyping; agammaglobulinaemia; diabetes insipidus; cancer; Lesch-Nyhan syndrome; muscular dystrophy; familial hypercholesterolaemia; polycystic kidney disease; osteogenesis imperfecta; autoimmune disease; acute intermittent porphyria; rheumatoid arthritis; multiple sclerosis;
New genotyping oligonucleotide, useful for detecting the presence,
                                                         WPI; 2001-290930/30
                                                                                                            Picoult-Newburg
                                                                                                                                                                                                                                                                                                                                      26-APR-2001
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                                                                                                                                                                                                                            15-OCT-1999;
                                                                                                                                                                                                                                                                            13-OCT-2000; 2000WO-US028436.
                                                                                                                                                                                                                                                                                                                                                                                         WO200129262-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      inflammation;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   intermittent porphyria;
mmation; forensic investi
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                                                                                                                                                                     ORCHID BIOSCIENCES INC
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larity 87.0%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      investigation;
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Pred. No. 6
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RESULT 25
ADB04575
ID ADB044
XX ADB04
XX ADB04
XX Cytog
DE Human
XX Cytog
KW Zinc
KW Zinc
KW Chron
KW devel
XX Homo
XX Homo
XX Homo
XX BP12E
XX O5-FE
PD 05-FE
XX O2-AL
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XX WPI;
XX WPI;
XX WPI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequences AAH37205 - AAH40944 represent PCR primers, single nucleotide CC primer extension (SNPE) primers, and the sequences of regions flanking CC sites of single nucleotide polymorphisms SNPs. The present invention CC oligonucleotides of the invention. The PCR primers are used to amplify a CC SNP flanking sequence, the SNPE primer is used as genotyping primer. CC SNP flanking a single-nucleotide primer extension reaction. The coligonucleotides are useful for genotyping a nucleic acid sample by CC performing a single-nucleotide primer extension reaction. The CC oligonucleotides are useful for determining the presence, absence or clentity of a SNP and for genotyping nucleic acid samples, for e.g. to CC assess by association analysis the genotype of an individual or group of cindividuals, having a pathological phenotypic trait suspected of being CC assess by association analysis the genotype of an individual or group of caused by one or more SNPs. Phenotypic traits include diseases e.g. CC osteogenesis imperfecta and acute intermittent porphyria. Phenotypic craits also include symptoms of or susceptibility to multifactorial CC traits also include symptoms of or susceptibility to multifactorial CC disease, including, rheumatoid arthritis, multiple sclerosis, inflammation, cancer, nervous system diseases and infection by pathogenic CC microorganism. The method is also useful in forensic investigations and compinent sequence represents a single nucleotide primer extension (SNPE) primer specific for a human SNP containing DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 20; Conserv
                                                                                                                                                                                                                                                                                                                                                              Cytostatic; immunostimulant; gene therapy; vaccine; human; zinc finger protein; MDZ3; MDZ4; MDZ7; MDZ12; chromosome 7q22.1; chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    absence or identity of single polynucleotide polymorphism in a nucleic scid sample.
 New zinc finger-containing proteins and nucleic acids, useful
                                         WPI; 2003-423107/40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADB04575 standard; DNA; 25
                                                                              Shannon M,
                                                                                                                                                      02-AUG-2001; 2001US-00922181
                                                                                                                                                                                           30-JUL-2002; 2002EP-00016874.
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                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                            developmental
                                                                                                                                                                                                                                                                                                                                                                                                                                        Human MDZ7 scanning oligonucleotide SEQ ID 5561.
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                                                                                                                   AEOMICA INC
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                                                                            Gu Y,
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                                                                                                                                                                                                                                                                                                                                              disorder; ss.
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                                                                            Nguyen
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Pred. No. 62
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manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ3, MDZ7 or MDZ12, e.g. cancer.

Example 8; SEQ ID NO 5561; 103pp; English

proteins and their coding sequences: MDZ3, MDZ4, MDZ7, MDZ12. MDZ3 is encoded at chromosome 7q22.1, MDZ4 is encoded at chromosome 6p21.3-22.2, MDZ7 is encoded at chromosome 1fp11.2 and MDZ12 is encoded at chromosome 1fp11.2 and MDZ12 is encoded at chromosome 15q26.1. The MDZ3, MDZ4, MDZ7, and MDZ12 sequences are useful in therapy, or in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ3, MDZ4, MDZ7, or MDZ12, e.g. cancer or developmental disorders. The nucleic acids and proteins are also useful for diagnosing or monitoring a disease caused by altered expression of MDZ3, MDZ4, MDZ7, or MDZ12. The nucleic acids can also be used as probes of MDZ3, MDZ4, MDZ7, or MDZ12. The probes are alterations in MDZ3, MDZ4, MDZ7, or MDZ12 genetic locus. The probes are useful in constructing microarrays for measuring gene expression. The useful in constructing microarrays for measuring gene expression. The proteins are useful as therapeutic agents for gene therapy or as vaccines. The present sequence was used to illustrate the invention. The present invention relates to novel human zinc finger-containing

Sequence 25 BP; 4 A; 2 C; 3 G; 16 T; 0 U; 0 Other;

5 Best Loc Matches Query Match Local 1306 Similarity 87.0 1.3%; 0; Pred. No. 62; 0; Mismatches Score 18.2; Pred. No. 62; DB 1; u ۔۔ Length Indels 0 Gaps 0

밁 ADB04577 standard; DNA; 25 w TTTTTTTATTTTCAGAGACAGA 1328 TTTTTTTTTTTTTGAGACAGA 25 ВP

20-NOV-2003 ADB04577; (first entry)

Human MDZ7 scanning oligonucleotide SEQ ID 5563

Cytostatic; immunostimulant; gene therapy; vaccine; human; zinc finger protein; MDZ3; MDZ4; MDZ7; MDZ12; chromosome 7q22.1; chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer; developmental disorder; ss.

Homo sapiens

EP1281758-A2

05-FEB-2003.

30-JUL-2002; 2002EP-00016874.

02-AUG-2001; 2001US-00922181.

(AEOM-) AEOMICA INC.

Shannon M, Gu Y, Nguyen

2003-423107/40.

New zinc finger-containing proteins and nucleic acids, useful in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ4, MDZ7 or MDZ12, e.g. cancer. of MDZ3,

Example

8; SEQ ID NO 5563; 103pp; English.

proteins and their coding The present invention relates to novel human zinc finger-containing proteins and their coding sequences: MDZ3, MDZ4, MDZ7, MDZ12. MDZ3 is sequences:

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ADB04576
IID ADB0
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DT 20-N
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XX Huma
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Best Local
The present invention relates to novel human zinc finger-containing proteins and their coding sequences: MDZ3, MDZ4, MDZ7, MDZ12. MDZ3 is encoded at chromosome 7q22.1, MDZ4 is encoded at chromosome fip11.3 and MDZ12 is encoded at chromosome fip11.2 and MDZ12 is encoded at chromosome fip11.2 and MDZ12 is encoded at chromosome 15q26.1. The MDZ3, MDZ4, MDZ7, and MDZ12 sequences are useful in therapy, or in manufacturing a medicament for treating or preventing a disorder or in manufacturing a medicament for treating or preventing a disorder or increased or increased expression or activity of MDZ3, MDZ4, MDZ7, or MDZ12, e.g. cancer or developmental disorders. The nucleic acids and proteins are also useful for diagnosing or monitoring a disease caused by altered expression of MDZ3, MDZ4, MDZ7, or MDZ12. The nucleic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New zinc finger-containing proteins and nucleic acids, useful in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ4, MDZ7 or MDZ12, e.g. cancer.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
developmental disorder; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cytostatic; immunostimulant; gene therapy; vaccine; human; zinc finger protein; MDZ3; MDZ4; MDZ7; MDZ12; chromosome 7q22.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human MDZ7 scanning oligonucleotide SEQ ID 5562.
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                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO 5562; 103pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gu Y, Nguyen
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Pred. No. 6
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RESULT 28
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local
                                                                                                           Matches
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
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                                                                                                                                                                                                                                                                                           A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEO files AAQ75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Analysis of cDNA and gene expression - by digestion with restriction enzymes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 04-AUG-1995
                                                                                                                                                                                                                 Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16-APR-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       aggregate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Analysis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Reverse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAQ75729;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAQ75729 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 25 BP; 4 A; 1 C; 4 G; 16 T; 0 U;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1306 TITTTTTTTTTTCAGAGACAGA 1328
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21
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                                                                                                                                                                                                                                                                 can be used to analyse gene expression rapidly and easily
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  N
                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            transcription
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                  AATTAAAAAAAAAAAAGTAAA 1536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gene expression; reverse transcription; primer; cDNA;
; restriction enzyme; ss.
                                                                                                                                                                                                                 BP; 2 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Page 8; 11pp;
                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEGRAPH & TELEPHONE CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           93JP-00112515
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                                                                                                                            1.3%;
                                                                                                                                                                                                                 0 C; 0 G; 19 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            primer used in cDNA analysis technique.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; Score 18.2; D; Pred. No. 62; 0; Mismatches
                                                                                                     0,
                                                                                                                               Score 17.8;
Pred. No. 9
                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    by amplification of mRNA followed
                                                                                                                                  90;
                                                                                                                                                        DB 1;
                                                                                                                                                                                                                 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                멂
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                                                                                                                                                        Length 21;
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                                                                                                     Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           are
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ADK01284/c ID ADK012 XX

ADK01284

standard; DNA;

21

BP

RESULT 29

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This invention describes a novel method for sorting single-stranded concluded acids by isolation and hybridisation of nucleic acids pools, then compared that are (a) immobilised on the surface of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonucleotides comprise variable and non-variable regions. The capture oligonucleotides comprises once in each nucleic acid and a 3'-variable, discriminatory region that comprises all possible combinations of up to 10 nucleotides to allow binding of particularly locked nucleic acids (LNA) and the anchor region comprises a sequence of 10-50, particularly 15-25, T residues. The capture oligonucleotides are biotinylated and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, conducting properties and especially in the form of a chip. Its surface is particularly a layer of (bio)molecular filaments and binding of single stranded nucleic acids to the surface is (quasi) covalent, supramolecular, physical, stimulated by an electrical field or through a molecular sieve. The method is used (i) for analysis of patterns, especially in mucosal, having or supplements, especially minerals, trace elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and carboxylic or fatty acid) or their derivatives, salts and carboxylic or fatty acid) or their derivatives, salts and carboxylic or fatty acid) or their derivatives, salts and carboxylic or fatty acid) or their derivatives, salts and carboxylic or fatty acid) or their derivatives, salts and carboxylic or fatty acid) or their derivatives, salts and carboxylic or fatty acid) or their derivatives, salts and carboxylic or fatty acid) or their derivatives, salts and carboxylic or fatty acid) or their derivatives, salts and carboxylic or fatty acid) or their derivatives, salts and carboxylic or fatty acid) or their derivatives, salts and carboxylic or fatty acid. Abx0134 represent carboxylic acid in the machal carboxylid acid. Abx0134
                                                                                                                                                           Query Match
Best Local 9
                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       04-SEP-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  06-MAY-2004
                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28-FEB-2002; 2002DE-01008794.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-FEB-2002; 2002DE-01008794.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example; Page 4; 8pp; German
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Boekenkamp D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (DEGS ) DEGUSSA BIOACTIVES GMBH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         hybridisation;
21
                                                                                                                                  l Similarity
19; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             nerve;
                                                                                                                                                                                                                                                                                                                                       probes used in the method of the invention.
                                                                                                                                                                                                                                                                        21
                                             ATTAAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                        BP;
                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first
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germ cell; food additive; food supplement.
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                                                                                                                                                              1.3%;
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                                                                                                                                                                     Score 17.8;
Pred. No. 9
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                                                                                                                                      Mismatches
                                                                                                                                                                                                         DB
                                                                                                                                                                                                                                                                        0 Other;
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                                                                                                                                      <u>ب</u>
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ARESULT 31
AAA164714
ID AA164
XX AA164
XX AA164
XX O7-DE
XX Human

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ABL60935/c
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to a novel human nucleotide reducing enzyme 59.62 polypeptide and encoding polynucleotide. The polynucleotide, polypeptide and its antagonist are useful for treating e.g. embryo development treatogenesis, blood system disease, and growth development disturbance disease. The present sequence represents the human nucleotide reducing enzyme 59.62 cDNA isolating RT-PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human nucleotide reducing enzyme 59.62 polypeptide and its encoding polynucleotide, for treating e.g. embryo development teratogenesis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nucleotide reducing enzyme 59.62; embryo development; teratogenesis; blood system disease; human; RT-PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABL60935 standard; DNA;
                                                                                                                                                                            Human; peroxidase 18; cytostatic; virucidal; immunomodulatory; antiinflammatory; haemostatic; malignant tumour; HIV; infection; human immunodeficiency virus; immunological disease; gene therap; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                    07-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                       AAI64714;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2002-305607/35.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       07-JUL-2000; 2000CN-00117037
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              30-JAN-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human nucleotide reducing
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                                                                              WO200172980-A1
                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                 Human peroxidase 18 PCR primer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (SHAN-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1511
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RESULT 32
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embryo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to human peroxidase 18 with cytostatic, viruc immunomodulatory, antiinflammatory and haemostatic activity. The prand encoding polynucleotide are used in diagnosis and treatment of malignant tumour, haemopathy, human immunodeficiency virus (HIV) infection, immunological diseases and various inflammations. The polynucleotide is useful for gene therapy. The present sequence is of a human peroxidase 18 PCR primer, useful to the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human peroxidase 18 and encoded polynucleotide, use treatment of malignant tumors, hemopathy, human imm infection, immunological diseases and inflammation.
                                                                                                                                                                             A human serine/threonine protein kinase 15.18 polypeptide, and t
polynucleotide encoding it, for treating e.g. embryo development
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30-JUN-2000; 2000CN-00116980
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human serine/threonine protein kinase 15.18 PCR primer #2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mao
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                                                                                                                                                        teratogenesis
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development
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20; Conserv
                                                                                                                                                                                                                                                                                                                                                                BODE GENE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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                                                                                                                                                        and tumors.
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                                                                                                                                                                                                                                                                                                                                                                DEV CO LTD SHANGHAI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1.3%;
                                                                                                     (Disclosure);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         teratogenesis; tumour; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    serine/threonine protein kinase 15.18; enzyme;
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Pred. No. 88;
O; Mismatches
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                                                                                                        Chinese.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         primer; ss
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The present invention relates to 15.18 (ABB7699). The kinase and treating diseases such as embryo

human serine/threonine protein kinase its coding sequence are useful for development teratogenesis and tumours

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RESULT 33

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CC perfect match, perfect mismatch, antisense match or antisense mismatch.

CR Also disclosed is a method of gene expression analysis. The array is used continuous gene expression levels by hybridisation to a DNA library, continuous. The nucleic acid probes are specifically designed for analysis of genetic variation or in hybridisation of tag-labelled compounds. The nucleic acid probes are specifically designed for analysis comprises comprises and teast one or more nucleic acids to at least two or more nucleic acids are attached to a solid support. The analysis comprises monitoring gene expression levels, identifying biallelic markers or polymorphisms, or family members of a gene and a cross-species comparison. Each of the nucleic acids further comprises a tag sequence. The array of nucleic acid probes is useful in in situ hybridisation, in Southern, Northern or dotable hybridisation to identify or detect the sequence or specific blot hybridisation of any gene, in mapping the 5' termini of mRNA molecules by material subclones containing segments of DNA that have been contained and previously sequenced. The sequence presented is one of the nucleic acid probes incorporated in the microarray. Note: The sequence contains patent can also be obtained in electronic format directly contained in electronic format directly
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New array of nucleic acid probes, useful for in situ hybridization, Southern, Northern or dot-blot hybridization to identify or detect sequence or specific mutations of any gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cross-species comparison.
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genetic variation; biallelic marker; polymorphism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human microarray DNA oligonucleotide SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention discloses a microarray comprising a plurality of nucleic acid probes including one of 2,018,500 fully defined sequences, or its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 1; SEQ ID NO 44586; 9pp; English
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                                                        The invention discloses a microarray comprising a plurality of nucleic CC acid probes including one of 2,018,500 fully defined sequences, or its CC perfect match, perfect mismatch, antisense match or antisense mismatch. CC Also disclosed is a method of gene expression analysis. The array is used CC in monitoring gene expression levels by hybridisation to a DNA library, CC in analysis of genetic variation or in hybridisation to a DNA library, CC in analysis of genetic variation or in hybridisation to a DNA library, CC in the least one target sequence. The method of analysis comprises CC of at least one target sequence. The method of analysis comprises CC hybridising at least one or more nucleic acids to at least two or more CC nucleic acid probes and detecting the hybridisation. The nucleic acid grobes are attached to a solid support. The analysis comprises monitoring CC gene expression levels, identifying biallelic markers or polymorphisms, CC or family members of a gene and a cross-species comparison. Each of the CC nucleic acids further comprises a tag sequence. The array of nucleic acid cross-species comparison or in situ hybridisation, in Southern, Northern or dottoth hybridisation to identify or detect the sequence or specific content to incorporate in appoing the 5' termini of mRNA molecules by CC primer extensions or in screening cDNA or genomic libraries or subclones CC isolated and previously sequenced. The sequence presented is one of the collect acid probes incorporated in the microarray. Note: The sequence CC data for this patent can also be obtained in electronic format directly collections.
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The present invention describes a short interfering nucleic acid (siNA) CC that downregulates expression of a mitogen-activated protein kinase CC (MAPK) genes by RNA interference. Also described: (1) a method for CC (MAPK) genes by RNA interference. Also described: (1) a method for CC companisms by introduction of siNA; (2) kits for in vitro or in vivo CC delivery of siNA; (3) conjugates and/or complexes of siNA; and (4) CC vectors that express siNA and cells containing these vectors. MAPK siNAs CC antiasthmatic, immunosuppressive, antiathatinal antirhoumatic, CC antiasthmatic, immunosuppressive, antibacterial, antirhoumatic, can be used to modulate the expression of MAPK genes, in cells, CC tissue explants or organisms, e.g. for treating obesity; diabetes types I CC and II; a wide range of tumours, and inflammatory diseases (asthma, CC septic shock, rheumatoid arthritis, psoriasis and inflammatory bowel CC disease). They can also be used for drug screening; diagnosis; target CC identification and validation; genetic engineering; pharmacogenomics;
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06-JUN-2002; 2002US-0386782P.
29-AUG-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0408378P.
09-SEP-2002; 2002US-0408378P.
15-JAN-2003; 2003US-0440129P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 short interfering nucleic acid; siNA; downregulation; inhibition; mitogen-activated protein kinase; MAP kinase; MAPK; RNA interference; cytostatic; anorectic; antidiabetic; antiinflammatory; antiasthmatic; immunosuppressive; antibacterial; antirheumatic; antiarthritic; antipsoriatic; gastrointestinal; obesity; diabetes; tumour;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   inflammatory disease; asthma; septic shock; rheumatoid arthritis; psoriasis; inflammatory bowel disease; drug screening;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 991; 164pp; English.
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Pred. No. 84;
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               short interfering nucleic acid; siNA; downregulation; inhibition; mitogen-activated protein kinase; MAP kinase; MAPK; RNA interference; cycostatic; anorectic; antidiabetic; antiinflammatory; antiasthmatic; immunosuppressive; antibacterial; antirheumatic; antiarthritic; antipsoriatic; gastrointestinal; obesity; diabetes; tumour; inflammatory disease; asthma; septic shock; rheumatoid arthritis; psoriasis; inflammatory bowel disease; drug screening; psoriasis; inflammatory bowel disease; drug screening; ss.
that downregulates expression of a mitogen-activated protein kinase (MAPK) genes by RNA interference. Also described: (1) a method for modulating expression of MAPK genes in cells, tisse explants or organisms by introduction of siNA; (2) kits for in vitro or in vivo delivery of siNA; (3) conjugates and/or complexes of siNA; and (4) vectors that express siNA and cells containing these vectors. MAPK siNAs have cytostatic, anorectic, antidiabetic, antiinflammatory, antiasthmatic, immunosuppressive, antibacterial, antirhumatic, antipsoriatic and gastrointestinal activities. The MAPK siNAs can be used to modulate the expression of MAPK genes, in cells,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               studying gene function and gene mapping (e.g. of single-nucleotide polymorphisms). The present sequence represents a MAPK siNA which is used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                          New short interfering nucleic acid, useful e.g. diagnosis of cancer, downregulates expression of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mitogen activated protein kinase siNA oligonucleotide SEQ
                                                                                                                                                                                                                                                                                      The present invention describes a short interfering nucleic acid (siNA)
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29-AUG-2002;
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11-MAR-2002;
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; 2002US-0386782P.
; 2002US-0406784P.
; 2002US-04083784P.
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                                                                                                                                                                                                                                                                                                                                           164pp;
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Pred. No. 1.
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1.2e+02;
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                                                                                           The present invention describes the human FD 17 protein (I). (I) has cytostatic, virucidal, immunomodulatory, antiinflammatory and haemostatic activities. The polynucleotide encoding (I) can be used in gene therapy. (I) and the polynucleotide encoding it are applicable in the diagnosis and treatment of malignant tumour, haemopathy, human immunodeficiency virus (HIV) infection, immunological diseases and various inflammations. The present sequence represents a PCR primer for human FD 17, which is
      Sequence 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            antiinflammatory; gene therapy; malignant tumour; haemopathy;
human immunodeficiency virus infection; HIV infection;
immunological disease; inflammation; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              tissue explants or organisms, e.g. for treating obesity; diabetes types and \Pi I; a wide range of tumours, and inflammatory diseases (asthma,
                                                                                                                                                                                                                                                                                                                                                                     Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (BIOW-) BIOWINDOW
                                                                       5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2001-550164/61.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FD 17; cytostatic; virucidal; immunomodulatory; haemostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12;
                                                                                                                                                                                                                                                                                                                                                              2; Page 11; 36pp; Chinese.
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                                                                    example from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 polypeptide FD 17 for diagnosing and treating malignant tumor, human immunodeficiency virus (HIV) infection, immunological
      BP; 0 A; 2 C; 1 G; 21 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PCR primer 2 SEQ ID NO:4.
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                                                                                                                                                                                                                                                                                                                                                                                                                                   inflammations.
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                                                                    present invention
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Pred. No. 1.2e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length
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XX Human; transcript ababases &
XX Human transcript according to transcript according to transcript according to transcript according to the process of the proc
   RESULT 39
ABA04964
ID ABA04
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AC ABA04
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DE Human
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Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to the isolation of human transcriptional activation subunit 14, and the polynucleotide encoding It. Also describe is the process for preparing the protein by DNA recombination and the application of the polypeptide and polynucleotide in treating various diseases such as malignant neoplasms, haematopathy, human immunodeficiency virus (HIV) infection, immunological diseases, and various inflammations. Antagonists against the polypeptide can also be used in treating such diseases. The present sequence for reverse transcriptase (RT)-PCR primer #2 is used with RT-PCR primer #1 (ABK13714 for isolating cDNA encoding human transcriptional activation subunit 14
                                                                 01-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human transcriptional activation subunit 14 and encoding polynucleotide, used in diagnosis and treatment of malignant tumors, hemopathy, human immunodeficiency virus infection, immunological diseases and
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Human FD14 PCR primer #1.
                                                                                                                             ABA04964;
                                                                                                                                                                                     ABA04964 standard; DNA; 24 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            18;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SHANGHAI BIOWINDOW GENE DEV INC
                                                                                                                                                                                                                                                                                                                                                                                                 АААААААААААСТААААС 1538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1.2%;
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Pred. No. 98;
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 24;
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RESULT 40
ABL54613
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Best Local S
Matches 19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human EDF-1
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immunodeficiency disease; immune disease; immunomodulatory; gene therapy;
                                                                                                                                                                                                         05-JUN-2000; 2000CN-00116322
                                                                                                                                                                                                                                                           05-JUN-2000; 2000CN-00116322
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human;
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19; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Page 16 (Disclosure); 32pp; Chinese
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ilarity 86.4%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               protein 9.13 PCR primer SEQ ID NO
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WPI; 2002-206965/27.

polypeptide-human EDF-1

protein

9.13

and polynucleotide encoding the

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RESULT 41
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XX W phenot
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This invention relates to a novel method for the characterisation of the activity of a compound on cell. The method involves receiving images of cells with a cellular activity and images of other cells treated with the compound, quantitatively characterising phenotypic attributes of the image of cells with a cellular activity to produce a target phenotype for the cellular activity and that of the image of other cells to produce a second phenotype for the compound, and comparing the two phenotypes to determine whether the compound possesses cellular activity. The invention
                                                                                                                                                                                                                                                                                                                                                  Characterizing cellular activity of compound, by receiving images of cells with known activity and images of cells treated with compound, characterizing phenotypic attributes of images and comparing the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to human EDF-1 protein 9.13, polynucleotide encoding this polypeptide and DNA recombinant processes to produce the polypeptide. The present invention also discloses the method of applying the polypeptide in treating various diseases, such as blood vessel development disorder, haemangioma, various tumours, inflammations and immunological diseases. The present invention also discloses the application of the polypucleotide for encoding human EDF-1 protein 9.13. The present sequence is that of the human EDF-1 protein 9.13 PCR primer, useful to examples of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2002-041423/05.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Oestreicher DR,
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20-FEB-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          phenotypic attribute multiple biological
                                                                                                                                                                                                                                                                   Disclosure; Fig 18; 139pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (CYTO-) CYTOKINETICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local
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llarity 86.4%;
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2001US-00790214.
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This invention describes a novel method for identifying an inhibitor CC potentially useful for treatment of cancer, where the inhibitor is active CC on a gene vital for cell growth or viability, and where the gene is CC subject to loss of heterozygosity (LOH) in a cancer. The inhibitor is CC used for preventing the development of cancer in a patient having a CC precancerous condition, by administering to the patient a first allele CC specific inhibitor (ASI) targeted to an allele of a first sesential gene CC present in cells of the precancerous condition, where the normal somatic CC cells of the patient are heterozygous for the first gene, the inhibitor CC is active on at least one but less than all allelic forms present in the cormal somatic cells, and the first gene. The products and methods can be CC used in the diagnosis, prevention and treatment of LOH disorders, e.g. CC cancers, atherosclerotic plaques, premalignant metaplastic or dysplastic CC lesions, benign tumours, endometriosis, polycystic kidney disease, and CC graft versus host disease. The method can also be used to remove
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Identifying target genes for allele-specific drugs - used for diagnosis, prevention and treatment of, e.g. cancers, atherosclerotic plaque, dysplastic lesions, endometriosis or graft versus host disease.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Polymorphism; human; inhibitor; cancer; treatment; cell growth; LOH; cell viability; loss of heterozygosity; precancerous condition; ASI; cell especific inhibitor; somatic cell; diagnosis; prevention; atherosclerotic plaque; premalignant metaplastic lesion; endometriosis; dysplastic lesion; benign tumour; polycystic kidney disease; transplant; graft versus host disease; malignant cell removal; bone marrow; ss.
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Pred. No. 1.
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                                                                                                                                                                                                                                                                               A method for the analysis of cDNA comprises (a) preparing an aggregate (double-stranded cDNAs by using an aggregate of mRNAs and a plural type (labelled reverse transcription primers (GENESEQ files AQ075547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                             ABZ89546;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Analysis; gene expression; reverse transcription; primer; cDNA; aggregate; restriction enzyme; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               malignant cells from bone marrow transplants. AAZ25812-Z26825 represent human polymorphic sites described in the method of the invention
17-OCT-2003
                                                                                                                                                                                                                                                      Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Reverse transcription primer used in cDNA analysis technique.
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                                                          ABZ89546 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Analysis of cDNA and gene expression - by digestion with restriction enzymes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1995-018287/03.
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llarity 90.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CC from 3' intron-exon junctions, or regions within 2-10 nucleotides of compositions of genes encoding a polypeptide associated with lung and/or cc nasal airway dysfunction and a polypeptide associated with lung and/or cc nasal airway dysfunction and an active agent comprising an cc antiinflammatory steroid and ubiquinone. A composition of the invention cc immunosuppressive, antiallergic, antiasthmatic, hypotensive, cc immunosuppressive, and cytostatic activity. The composition may have a cc use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also cc in antisense gene therapy. The composition is useful for treating or cc enhancing the prophylactic or therapeutic respiratory effect of an antinflammatory streoid in a subject, for reducing levels of adenosine creceptor, producing bronchodilation, increasing levels of adenosine creceptor, producing bronchodilation, increasing levels of budguinone or lung surfactant in a subject; first reating bronchoconstriction, cc lung inflammation, lung allergies, or a respiratory disease or condition. Cc Note: The sequence data for this patent is not represented in the printed constriction, but was obtained in electronic format directly from WIPO cat fly, wipo.int/bub/bublished not semmences.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or corresponding the corresponding that the corresponding the corresponding the corresponding that the corresponding the corresponding that the corresponding the corresponding the corresponding that the corresponding the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a novel pharmaceutical composition, which he first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking region, and 3' intron-exon junctions, or regions within 2-10 nucleotides,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 20 BP; 18 A; 0 C; 0 G; 2 T; 0 U; 0 Other;
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L, Shahabuddin
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29-JUL-2004 ABD25776;

(first

standard; DNA; 20

ΒP

AI085559 DNA fragment.

Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory disease; pulmonary hyportension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;

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CC comprising oligonucleotides, effective for alleviating controlled denosine sensitivity, levels of adenosine (A) receptors, cc surfactant depletion or hyposecretion, when administered to a mammal. The coligonucleotides are derived from a gene encoding or regulating cc expression of a target polypeptide associated with lung airway or lung cc dysfunction or cancer and can be anti-sense to the corresponding mRNA. cc instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, in algesic, hypotensive, immunosuppressive and cytostatic activity, is a cc treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The composition allergies and/or bronchoconstriction and/or lung cinflammation, allergies and/or bronchoconstriction and/or lung cinflammation, allergies, asthma, impeded respiration, respiratory conflammation, emphysema, chronic obstructive pulmonary disease, pulmonary conflammation, emphysema, conflamm
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1250 TGTTTTGTTTTTTAATCAGA 1269

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                                      The present invention relates to a compound which specifically hybridizes with a nucleic acid molecule encoding GFAT, and inhibits the expression of GFAT. Specifically claimed are antisense oligonucleotides capable of modulating the expression of GFAT, and which comprise any of the 3063 sequences of 20 base pairs, given in the specification. The compound, composition and methods are useful for treating a disease or condition associated with GFAT, such as a disease or condition, e.g. diabetes, a cardiovascular or neurological disorder, ischemia/reperfusion injury. They are also useful in research and disgnostics for modulating the expression of GFAT. The present sequence represents a chimeric phosphorothicate oligonucleotide with 2'. MOE wings and a deoxy gap, these
                                                                                                                                                                                                                                    New compounds, particularly antisense oligonucleotides targeted to a nucleic acid encoding glutamine-fructose-6-phosphate amidotransferase (GFAR), for treating diabetes, a cardiovascular or neurologic disorder ischemia/reperfusion injury.
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 Sequence
                            oligonucleotides inhibit human GFAT expression.
                                                                                                                                                                                                           Claim
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/note= "2*methoxyethyl wing"
17. .20
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 G; 6 T; 0
                                                                                                                                                                                                          English.
 Ų;
    0 Other;
                                                                                                                                                                                                                                                     disorder.
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Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and

24-APR-2001; 2001US-0286036P

(EPIG-) EPIGENESIS PHARM INC.

τ S,

Li Y, Sa , Tang L,

Sandrasagra A, ,, Shahabuddin

Katz E,

Pabalan J,

Aguilar

23-APR-2002; 2002WO-US013143.

Homo

sapiens.

pulmonary transplantation rejection; ds.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New compounds, particularly antisense oligonucleotides targeted to a nucleic acid encoding glutamine-fructose-6-phosphate amidotransferase (GFAT), for treating diabetes, a cardiovascular or neurologic disorder,
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oligonuclectides inhibit human GFAT expression.
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                                      1248 TTTGTTTTGTTTTTTAATCA 1267
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/note= "2-methoxyethyl wing"
17. 20
/*tag= b
/mod_base= other
/note= "2-methoxyethyl wing"
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                                                                                                                                                                                                                                               A; 2 C; 2
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                                                                                                                                                   Score 16.8;
Pred. No. 1.
                                                                                                                         Mismatches
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                                                                                                                                                                                      DB 1;
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RESULT 48
ADP97913/c
ID ADP979
XX ADP979
XX Diploi
XX Candid
OS Uniden
XX HOUSON
PN WOZOON
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PN WOZOON
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PN (E
CC sequence encoding an expressible selectable marker; and the expression of the second allele of the gene is regulated by a heterologous promoter CC that is operably linked to the coding region of the second allele of the Gene, and where the gene encodes the polypeptide mentioned above; a collection of diploid fungal strains comprising the diploid strains cited above, where substantially all the different genes that encode the above amino acid sequences are modified and are present in different diploid strains in the collection; a nucleic acid molecule microarray comprising nucleic acid molecule microarray comprising comprising any of the 310 nucleotide sequences listed in the specification (App98516-App98825); identifying a gene that is essential to the survival or growth of a fungus, or that contributes to the virulence capent that inhibits the growth of a diploid fungus, or that contributes to the virulence of a diploid fungus to an antifungal agent; identifying an antifungal agent that inhibits the growth of a diploid fungus, or a therapeutic capent for treatment of a mammalian disease; correlating changes in the levels of proteins or gene transcripts with the inhibition of growth or capital for proliferation of diploid fungal cell; a purified or isolated mucleic comprising a promoter operably linked to the nucleic acid molecule comprising a nucleotide sequence amoding a gene product comprising a promoter operably linked to the nucleic acid molecule cited above; a host cell containing the vector; a purified or isolated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a novel method for constructing a strain of diploid fungal cells in which both alleles of a gene are modified. The method comprises modifying the alleles of a gene in diploid fungal cells by recombination using a gene disruption cassette and a promoter replacement fragment. The invention further comprises: assembling a collection of diploid fungal cells each of which comprises modified alleles of a different gene; a strain of diploid fungal cells comprising modified alleles of a gene, where the first allele of the gene is inactivated by a gene disruption cassette comprising a nucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Constructing a strain of diploid fungal cells in which both alleles of a gene are modified comprises modifying the alleles of a gene in the fungal cells by recombination using a gene disruption cassette and a promoter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Diploid fungal cell; promoter replacement
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 36; SEQ ID NO 4018; 163pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2004-500296/47
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19-DEC-2003; 2003WO-US040618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            08-JUL-2004.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Diploid fungal cell; allele; gene disruption cassette; promoter replacement fragment; antifungal; fungicide; gene therapy; infection; Candida albicans; identification; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C. albicans specific gene, CaORF6_1625, identification primer A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23-SEP-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  by recombination using a cement fragment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ELITRA PHARM INC.
ELITRA CANADA LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Jiang B,
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CC producing a polypeptide; identifying a compound which modulates the activity of a gene product encoded by a nucleic acid comprising any of CL DP98616-ADP98825; eliciting an immune response in an animal; a strain of CC Candida albicans, where a first allele of a gene comprising any of CL DP98616-ADP98825 is inactive and a second allele of the gene is under the control of a heterologous promoter; identifying a compound or binding CC partner that binds to the polypeptide comprising any of ADP98826-ADP99135, or its fragment; identifying a compound or binding CC proliferation of Candida albicans; inhibiting growth or CC compound; treating an infection of a subject by Candida albicans; compound; treating an infection of a subject by Candida albicans, CC preventing or inhibiting formation of a subject by Candida albicans, CC compound; treating an infection of a subject by Candida albicans, CC preventing or inhibiting formation on a surface of a biofilm and CC compound; treating or inhibiting formation on a surface of a biofilm and CC product encoded by a nucleic acid comprising any of ADP9816-ADP98825 in a pharmaceutical carrier; an antibody preparation which binds CC the polypeptide; methods for evaluating a compound against a target gene product encoded by any of ADP98516-ADP98825; identifying an antimycotic compound; a computer or a computer readable medium that comprises at least one of the nucleotide sequence smartioned in the specification or at least one of the nucleotide sequence smartioned in the specification or at least one of the molocitide sequence smartioned in the specification or a composition and apportance of a fungus; and a protein array comprising a putatively sesential gene of a fungus; and a protein array comprising proteins, where at least one protein comprises and a protein encoded by a molective composition of an amino acid sequence selected from ADP9816-ADP9825. The novel methods and composition and molecular and molecular and molecular and molecular and molecular and molecular and molecul
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local
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     16-APR-1993;
                                                                                                                                                                                                                                                                                                     Reverse transcription primer used in cDNA analysis technique.
                                                                                                                                                                                                                                                                                                                                                              04-AUG-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAQ75730 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
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                                                         01-NOV-1994
                                                                                                                                                                                                                     aggregate;
                                                                                                                                                                                                                                                  Analysis; gene expression; reverse transcription; primer; cDNA;
                                                                                                                                                                                                                                                                                                                                                                                                                 AAQ75730
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     93JP-00112515
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                                                                                                                                                                                                                        enzyme;
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Pred. No. 1.
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RESULT 50
AAQ75732/c
ID AAQ757
XX AAQ757
XX AAQ757
XX AAQ757
XX AAA198
XX AAA198
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XX JP0630
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PT 16-APR
XX WPI; 1
XX WPI; 1
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XX AAA198
PT AAA198
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XX AAA198
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Matches
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             A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AAQ75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AAQ75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in separate lanes. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 21
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                                                                                                                                                                                                                                                                 Disclosure; Page 8; 11pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                Analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-NOV-1994.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Analysis; gene expression; reverse transcription; primer; cDNA; aggregate; restriction enzyme; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Reverse transcription primer used in cDNA analysis technique.
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                                                                                                                                                                                                                                                                                                                     digestion
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                                                                                                                                                                                                                                                                                                                     cDNA and gene expression with restriction enzymes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
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Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0 Other;
                                                                                                                                                                                                                                                                                                                                                amplification of mRNA followed
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RESULT 52
AAQ75727/c
ID AAQ757
XX
AC AAQ757
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DT 04-AUG
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DE Revers
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AAQ75728/c
ID AAQ757
XX JF0630
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Best Local S
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                            Reverse transcription primer used in cDNA analysis technique
                                                                                                                                                                                          AAQ75727 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A method for the analysis of cDNA comprises (a) preparing an aggregate of double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AA975547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAQ75728 standard; DNA;
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                                                                                 04-AUG-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 8; 11pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1995-018287/03.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Analysis of cDNA and gene expression - by amplification of mRNA followed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16-APR-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Analysis; gene expression; reverse transcription; primer; cDNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (NITE ) NIPPON TELEGRAPH & TELEPHONE CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16-APR-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            digestion with restriction enzymes.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21
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                                                                                                                                                                                                                                                                                                                                                                                     АТТАЛАЛАЛАЛАЛАСТАЛА 1536
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                                                                                 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 16.8; DB 1;
Pred. No. 1.5e+02;
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Pred. No. 1.5e+02;
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RESULT 53
AAZ45017/c
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Best Local
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                                                                                                                                                                                                                                     Uridine diphosphate-glucuronosyltransferase 1; UGT1; polymorphism; pr
glucuronic acid; Crigler-Najjar syndrome; Gilbert syndrome; jaundice;
unconjugated hyperbilirubinaemia; drug metabolism; transgenic animal;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 8; 11pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Analysis of cDNA and gene expression - by amplification of mRNA followed by digestion with restriction enzymes.
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                                                                                         07-MAY-1998;
                                                                                                                  04-MAY-1999;
                                                                                                                                              11-NOV-1999.
                                                                                                                                                                       WO9957322-A2
                                                                                                                                                                                                 Homo
                                                                                                                                                                                                                          pharmacogenetic
                                                                                                                                                                                                                                                                                           UDP-glucuronosyltransferase 1 (UGT1) exon 1E polymorphism C517G.
                                                                                                                                                                                                                                                                                                                     28-FEB-2000
                                                                                                                                                                                                                                                                                                                                               AAZ45017;
                                                                                                                                                                                                                                                                                                                                                                        AAZ45017 standard; DNA; 21
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                                                               (AXYS-) AXYS PHARM INC
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                                                                                                                                                                                                                        screening; diagnose; ss.
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WPI; 2000-052981/04

Penny L,

Galvin M;

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Y PRINCE 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CC (NGT1) gene sequence polymorphisms. The nucleotide changes in each CC (NGT1) gene sequence polymorphisms. The nucleotide changes in each CC polymorphism are numbered from the A of the first methionine for the exon CC in which the polymorphism occurs. The UGTs are a family of enzymes that CC catalyse the glucuronic acid conjugation of a wide range of endogenous CC and exogenous substrates including phenols, alcohols, amines and fatty CC acids. Many of the reactions catalysed by UGTs result in toxic substances CC being converted to compounds which are more water soluble and are CC excreted. The polymorphisms sequences are useful as probes for detecting CC UGT1 locus polymorphisms, indicative of altered UGT1 expression or CC activity. These polymorphisms are associated with Crigler-Najjar and CC dilbert syndromes (unconjugated hyperbilirubinaemia) and drug metabolism. CC The genotyping of the UGT1 gene is used to predict the rate of metabolism CC of UGT1 substrates, possible drug-drug interactions and adverse side CC by exposure to toxins and to study the effects of polymorphisms, can also be used to produce the corresponding protein (or its fragments) or to CC generate transgenic animals or modified cells e.g. for pharmacogenetic CC generate transgenic animals or modified cells e.g. for pharmacogenetic CC generate
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADK01281 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                           28-FEB-2002; 2002DE-01008794.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Rat DNA microarray capture oligonucleotide
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                                                                                                and constant
                                                                                                                            Sorting single-stranded nucleic acid, useful for analyzing expression parterns and screening active agents, uses capture agent with variable
                                                                                                                                                                                                                                       WPI; 2003-714082/68
                                                                                                                                                                                                                                                                                                       Boekenkamp D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28-FEB-2002; 2002DE-01008794
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                                                                                                   regions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tion; capture oligonucleotide; pattern; mucosal; hair
germ cell; food additive; food supplement.
                                                                                                                                                                                                                                                                                                   Dieck HT, Hoppe H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       63pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  90.0%;
                                                                                                                                                                                                                                                                                                                                                                              GMBH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 16.8; DB 1;
Pred. No. 1.5e+02;
D; Mismatches 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1; Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             #1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0;
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Example, Page

4; 8pp; German

Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable

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ADKO1282/G
ID ADKO1
XX ADKO1
XX ADKO1
XX O6-MA
XX B8; h
XX B8; h
XX B10od
XX B10od
XX B10od
XX B10od
XX B10od
XX B10od
XX B102
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CC nucleic acids by isolation and hybridisation of nucleic acid pools, then comparise variable and non-variable are selectively bound using capture capture is a solid matrix and (b) comprise variable and non-variable regions. The capture oligonucleotides comparise variable anchor region, the complement of which is present at comprises all possible combinations of up to 10 nucleotides to allow that comprises all possible combinations of up to 10 nucleotides to allow comprises are particularly locked nucleic acids (LMA) and the anchor region comprises a sequence of 10-50, particularly 15-25, T residues. The capture capture oligonucleotides are biotinylated and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, conducting properties and especially in the form of a chip. Its surface is particularly a layer of (bio)molecular filaments and binding of single stranded nucleic acids to the surface is (quasil covalent, supramolecular, physical, stimulated by an electrical field or through a molecular sieve. The method is used (i) for analysis of patterns, especially in mucosal, hair root, blood, nerve or germ cells and (ii) for determining the acids (amino, carboxylic or fatty soil patterns, especially minerals, trace elements, organic caids (amino, carboxylic or fatty soil or the root and reproducible caids (amino of differences in pools of nucleic acids from cells. It can detect very small differences in pools of nucleic acids from cells. It can detect very small differences in the nucleic acid soils. It can detect very small differences in nucleic acid pools, not individual componed is used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 blood;
                                                                                                   WPI; 2003-714082/68
                                                                                                                                                                                                                                                                                                   28-FEB-2002; 2002DE-01008794.
                                                                                                                                                                                                                                                                                                                                                                    28-FEB-2002; 2002DE-01008794.
                                                                                                                                                                                                                                                                                                                                                                                                                                     04-SEP-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DE10208794-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rattus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Rat DNA microarray capture oligonucleotide #2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADK01282;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADK01282 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 21 BP; 3 A; 0 C; 0 G; 18 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This invention describes a novel method for sorting single-stranded
                                                                                                                                                                                                                                  (DEGS ) DEGUSSA BIOACTIVES GMBH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              hybridisation; capture oligonucleotide; pattern; mucod; nerve; germ cell; food additive; food supplement
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1518 ТТАЛАЛАЛАЛАЛАСТАЛЛА 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1.2%;
Similarity 90.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                 Dieck
                                                                                                                                                                 HT,
                                                                                                                                                                 Hoppe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        쁑
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 16.8; DB 1;
Pred. No. 1.5e+02;
                                                                                                                                                                 Ή
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    pattern; mucosal; hair root;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
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Page 4; 8pp;

German.

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ADK01283/c
ID ADK012
XX
AC ADK012
XX
DT 06-MAY
XX
DE Rat DN
XX
KW 88; hy
KW blood;
XX
CS Rattue
XX
OS Rattue
XX
OS RATUE
PN 04-SEI
XX
PP 28-FEI
XX
PR 28-FEI
XX
PR 1DEGS
XX
PI Boeker
XX
BI Boeker
XX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This invention describes a novel method for sorting single-stranded CC nucleic acids by isolation and hybridisation of nucleic acid pools, then CC reading out, where the nucleic acids are selectively bound using capture CC agents that are (a) immobilised on the surface of a solid matrix and (b) CC comprise variable and non-variable regions. The capture oligonucleotides have a 5'-invariable anchor region, the complement of which is present at CC least once in each nucleic acid and a 3'-variable, discriminatory region CC that comprises all possible combinations of up to 10 nucleotides to allow binding of particularly locked nucleic acids (LNA) and the anchor region CC capture oligonucleotides are biotinylated and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, CC conducting properties and especially in the form of a chip. Its surface is particularly a layer of (bio)molecular filaments and binding of single CC additives or supplements, especially in the form of a chip. Its surface is tranded nucleic acids to the surface is (quasi)covalent, supramolecular, CC physical, stimulated by an electrical field or through a molecular sieve. The method is used (i) for analysis of patterns, especially in mucosal, caids (amino, carboxylic or fatty acid) or through a molecular sieve. CC additives or supplements, especially minerals, trace elements, organic caids (amino, carboxylic or fatty acid) or their derivatives, salts and ccapture probles used in differences in pools of nucleic acids from cells. It can detect very small differences in pools of nucleic acids from cells. It can detect very small differences in the nucleic acid gool. Since the method is based on comparison of nucleic acid pool. Since the complete pattern of all nucleic acid in a cell, and ccapture probes used in the method of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                          Boekenkamp D,
                                                                                                           28-FEB-2002; 2002DE-01008794.
                                                                                                                                                     28-FEB-2002; 2002DE-01008794.
                                                                                                                                                                                                                                                                                                                                                                                         Rat DNA microarray capture oligonucleotide #3
                                                                                                                                                                                                                                                                                                                                                                                                                                   06-MAY-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADK01283
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADK01283 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 21 BP; 2 A; 0 C; 1 G; 18 T; 0 U; 0 Other;
                                                                                                                                                                                                                                          DE10208794-A1
                                                                  (DEGS ) DEGUSSA BIOACTIVES GMBH
                                                                                                                                                                                                                                                                                                                            hybridisation; capture oligonucleotide; pattern; mucosal; hair root; od; nerve; germ cell; food additive; food supplement.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1518 TTAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTAAAAAAAAAAAAAAAA 1
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                          Dieck HT, Hoppe H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 16.8; DB 1;
Pred. No. 1.5e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 21;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0,
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This invention describes a novel method for sorting single-stranded concleic acids by isolation and hybridisation of nucleic acid pools, then comparise variable mucleic acids are selectively bound using capture comprise that are (a) immobilised on the surface of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonucleotides have a 5'-invariable anchor region, the complement of which is present at cleast once in each nucleic acid and a 3'-variable, discriminatory region combinations of up to 10 nucleotides to allow binding of particularly locked nucleic acids (LNA) and the anchor region capture oligonucleotides to allow binding of particularly locked nucleic acids (LNA) and the anchor region comprises a sequence of 10-50, particularly 15-25, T residues. The capture capture oligonucleotides are biotinylated and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, conducting properties and especially in the form of a chip. Its surface stranded nucleic acids to the surface is (quasi) covalent, supramolecular, computed and is used (j) for analysis of patterns, especially in mucosal, that root, blood, nerve or germ cells and (ii) for determining the activity of pharmaceuticals and/or nutritional compounds, e.g. food caids (amino, carboxylic or fatty acid) or their derivatives, salts and captures. The method provides rapid, inexpensive and reproducible representation of differences in pools of nucleic acid sfrom cells. It can lows imaging of the complete pattern of all nucleic acid pool. Since the method is based on comparison of nucleic acid pools, not individual genes, matrix miniaturisation is possible. ABX01281-ABX01344 represent compares on the nucleic acid pool.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example; Page 4; 8pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2003-714082/68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            constant regions.
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문 á Query Match Local 1518 ТТАЛАЛАЛАЛАЛАГТАЛАЛ 1537 20 TTAAAAAAAAAAAAAAAA 1 Similarity Conservative 1.2%; <u>.</u> Score 16.8; DB 1 Pred. No. 1.5e+02 0; Mismatches DB 1; Length 21; Indels 0 Gape 0

Sequence 21 BP; 2 A; 1 C; 0 G; 18 T; 0 U; 0 Other;

probes used in the method of the invention.

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RESULT 57
ADK01329/c
                                                    06-MAY-2004 (first entry)
                                                            ADK01329;
                                                                  ADK01329 standard; DNA; 21 BP
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ss; hybridisation; capture oligonucleotide; pattern; mucosal; hair root; blood; nerve; germ cell; food additive; food supplement.

28-FEB-2002; 2002DE-01008794 28-FEB-2002; 2002DE-01008794. 04-SEP-2003. DE10208794-A1 Rat DNA microarray capture oligonucleotide #49

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RESULT 58
ABD25932
ID ABD25
XX
AC ABD25
XX
DT 29-JU
XX
DE AA500
XX
W Human
KW resp
KW resp
KW anal
KW anal
KW anal
KW emph
KW emph
KW emph
KW pulm
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This invention describes a novel method for sorting single-stranded CC nucleic acids by isolation and hybridisation of nucleic acids pools, then CC reading out, where the nucleic acids are selectively bound using capture CC agents that are (a) immobilised on the surface of a solid matrix and (b) C comprise variable and non-variable regions. The capture oligonucleotides CC have a 5'-invariable anchor region, the complement of which is present at CC least once in each nucleic acid and a 3'-variable, discriminatory region CC that comprises all possible combinations of up to 10 nucleotides to allow binding of particularly locked nucleic acids (LNA) and the anchor region CC capture oligonucleotides are biotinylated and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, cretal, resin, gel, crystalline material and/or membrane, having semicant conducting properties and especially in the form of a chip. Its surface is particularly a layer of (bio)molecular filaments and binding of single CC estranded nucleic acids to the surface is (quasil covalent, supramolecular, physical, stimulated by an electrical field or through a molecular sieve. CC the method is used (1) for analysis of patterns, especially in mucosal, acids (main, carboxylic or fatty acid) or their derivatives, ealts and computes. The method provides rapid, inexpensive and reproducible acids (main, carboxylic or fatty acid) or their derivatives, salts and complements in an acids from cells. It allows imaging of the complete pattern of acids from cells. It calls based on comparison of nucleic acid pool. Since the complete pattern of acid pool. Since the cell, and cashod is based on comparison of nucleic acid pool. Since the cashod is the method of the fire acids call pools, not individual to the based on comparison of nucleic acid pool. Since the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                         Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lnng; cancer; surfactant depletion; antiallergic; antiinflammatory; antisthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenorgic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysems; chronic obstructive pulmonary disease; cancer; bronchitis;
                                                                                                                                                                                                                                                                                                               ABD25932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example; Page 5; 8pp; German.
                           pulmonary transplantation
                                                                                                                                                                                                                          AA505075-derived
                                                                                                                                                                                                                                                                      29-JUL-2004
                                                                                                                                                                                                                                                                                                                                                          ABD25932 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1518 TTAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            probes used in the method of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TTAAAAAAAAAAAAAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            screening active agents, uses capture agent
                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                          oligonucleotide SEQ ID 4944.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; 0 C; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1.2%;
                             rejection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                G; 19 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 16.8; D
Pred. No. 1.5e
O; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     N
                           ss; primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1.5e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ۳.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
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CC surfactant depletion or hyposecretion, when administered to a mammal. The clynowing of the pletion or hyposecretion, when administered to a mammal. The corpression of a target polypeptide associated with lung airway or lung cypression of a target polypeptide associated with lung airway or lung cypression or cancer and can be anti-sense to the corresponding mRNA. CC The invention also describes a kit, that comprises: (a) a delivery constructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, considered addressive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The composition, allergies, asthma mary respondention and/or bronchoconstriction are associated with a disease or condition such as pulmonary vasoconstriction, confilled and products and products and products and production, prespiratory transplantation, allergies, asthma, impeded respiration, respiratory transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to the oligonacy brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it
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                              ঠ
                                                                                                                                            Query Match
Best Local S
                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               rnis invention describes a novel composition (a) a first active agent, comprising oligonucleotides, effective for alleviating bronchoconstriction, respiratory tract inflammation, allergies and reducing adenosine sensitivity, levels of adenosine (A) or (A) recepto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, target nucleic acids associated with lung airway or lung dysfunction,
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Pred. No. 1.5e+02
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RESULT 59
AB073362/c
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AC AB073262;
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DT 30-SEP-2002 (first entry

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(first entry)

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RESULT 60
ABAO1630/c
ID ABAO16:
XX ABAO16:
XX ABAO16:
XX O5-FEB
XX UHuman;
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Best Local
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                                                       02-MAR-2000; 2000CN-00101873.
                                                                                                                                                      11-OCT-2001
                                                                                                                                                                                                                                                                                                                    Human; RNA helicase 15; cytostatic; virucidal; immunomodulatory; antiinflammatory; haemostatic; gene therapy; vaccine; diagnosis; haemopathy; HIV infection; immunological disease; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                        Human RNA helicase 15 PCR primer 1 SEQ ID NO:3.
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                                                                                                      26-FEB-2001; 2001WO-CN000222.
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rder; immunological disease; haemopathy; HIV infection;
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                                                    The present invention provides the protein and coding sequences of human phosphatidylinositol-3 (PTDINS-3) kinase 35. The sequences can be used in the treatment of cancer, haemopathy, HIV infection, development disorders, immunological diseases and inflammation. The present sequence
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                                                                                                                                                                                                                                                                                                                 and
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is a

primer for the coding

sequence of

the invention

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RESULT 63
ABK86169
ID ABK86
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AC ABK86
XX
DT 24-SE
XX
DE Oligo
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                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                         The present invention relates to the isolation of polypeptide-laminin B210.67, and the polynucleotide encoding it. Also described is the process for preparing the protein by DNA recombination. The polypeptide is useful for treating diseases such as embryo development teratogenesis. The present sequence for reverse transcriptase (RT)-PCR primer #1 is used with RT-PCR primer #2 (ABK12410) for isolating cDNA encoding polypeptide-laminin B210.67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mao
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 Oligo dT primer #2 used in method to study gene expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14-JUN-2000; 2000CN-00116514.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Polypeptide-laminin B210.67; embryo development teratogenesis; cytostatic; reverse transcriptase-PCR; RT-PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABK12409
                           24-SEP-2002
                                                     ABK86169;
                                                                             ABK86169 standard;
                                                                                                                                                                                                                                                  Seguence 24 BP; 19 A; 2 C; 0
                                                                                                                                                                                                                                                                                                                                                                                 Example 2; Page 18 (disclosure); 33pp; Chinese
                                                                                                                                                                                                                                                                                                                                                                                                              development teratogenesis.
                                                                                                                                                                                                                                                                                                                                                                                                                        Polypeptide-laminin B210.67, useful for treating diseases such as embryo
                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2002-270054/32.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14-JUN-2000; 2000CN-00116514.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RT-PCR primer #1 for cDNA encoding polypeptide-laminin B210.67.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABK12409 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (BODE-) BODE GENE DEV CO LTD SHANGHAI.
                                                                                                                                                                    1518 ТТАЛАЛАЛАЛАЛАСТАЛА 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1518 TTAAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                            1.2%;
Similarity 90.0%;
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llarity 90.0%;
Conservative
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                         (first entry)
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                                                                             DNA;
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                                                                                                                                                                                                            Score 16.8; DB 1; Length 24; Pred. No. 1.3e+02;
                                                                                                                                                                                                                                                  G; 3 T; 0 U;
                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                    0 Other;
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**XXXXXXXX** 

ABK86168; 24-SEP-2002

(first

entry)

ABK86168 standard; DNA;

Oligo dT primer; gene expression analysis; primer;

Oligo dT primer #1 used in method to study gene expression.

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RESULT 64
ABK86168/c
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                                                                                                                                                                                                                                                                                   CC of gene expression in one or more samples, comprising an identifier having a specific oligo-dT primer sequence, where the identifier comprises a cc detectable marker at its 5' end. The system is useful for identifying any cc or all genes expressed in a given in vivo or in vitro RNA sample, as well cas the relative differences in mRNA between 2 or more samples, where cc desired, for supporting discovery of new genes, and for identifying mRNAs that are expressed at different levels between 2 or more samples. The new grater or method addresses limitations of prior methods by comprising compositions and systems that incorporate new strategies where more databases for optimal resource efficiency in assaying gene cor biochemical assay compositions and systems are linked to DNA or RNA cc sequence databases for optimal resource efficiency in assaying gene cor methods: (a) prior sequence information or clone library construction is not needed to enable the assay; (b) provides immediate sequence in formation concerning changes or differences in mRNA level, to determine mRNA expression level and mRNA identification crimanal concerning changes or differences in one assay; (c) generates cDNA fragments from all mRNAs present in the sample for subsequent investigation by common molecular biology crechniques; and (d) does not require prior knowledge of the sequence of the organism under investigation and can be employed in corporation. The present convertion in the method of the geneme are presents an oligo dT primer used in the method of the cinvention.
                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 11; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Identifying and characterizing gene expression in samples, identifying mRNAs expressed at different levels, comprises identimer having a oligo-dT primer of a specific sequence a detectable marker at its 5' end.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Kane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-NOV-2001; 2001WO-US045401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-MAY-2002
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                                                                                                                                                                                                                                      Sequence 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to systems for identification and characterisation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-NOV-2000; 2000US-0244933P.
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                                                                                                                    1518 TTAAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                           1.2%;
Similarity · 90.0%;
                                                                               TTAAAAAAAAAAAAAAAAAA
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                                                                                                                                                                                                                                      BP;
                                                                                                                                                           Conservative
                                                                                                                                                                                                                                      20 A;
                                                                                                                                                                                                                                      0 C; 1
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                                                                                                                                                           0,
                                                                                                                                                                           Score 16.8; DB 1
Pred. No. 1.3e+02
                                                                                                                                                                                                                                      G; 3
                                                                               22
                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                      T; 0
                                                                                                                                                                                                                                      U; 0 Other;
                                                                                                                                                                                             DB 1; Length
                                                                                                                                                             Indels
                                                                                                                                                                                                    24;
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RESULT 65
AAS13049/c
ID AAS130
XX AAS130
AC AAS130
XX DT 17-DEC
XX Primer
XX Zinc f
XX Zinc f
XX Zinc f
XX Zynthe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CC or all genes expressed in a given in vivo or in vitro RNA sample, as well contained to the relative differences in mRNA between 2 or more samples, where CC desired, for supporting discovery of new genes, and for identifying mRNAs CC that are expressed at different levels between 2 or more samples. The new genes are expressed at different levels between 2 or more samples. The new CC system or method addresses limitations of prior methods by comprising CC compositions and systems that incorporate new strategies where molecular CC or blochemical assay compositions and systems are linked to DNA or RNA CC sequence databases for optimal resource efficiency in assaying gene CC expression. The system has the following advantages over existing CC methods: (a) prior sequence information or clone library construction is not needed to enable the assay; (b) provides immediate sequence CC information in addition to information concerning changes or differences in one assay; (c) generates CDNA fragments from all mRNAs present in the cc sample for subsequent investigation by common molecular biology CC techniques; and (d) does not require prior knowledge of the sequence of the organism under investigation and can be employed in corganisms lacking significant genomic sequence in formation. The present convertion represents an oligo dT primer used in the method of the
                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         of gene expression in one or more samples, comprising an identimer having a specific oligo-dT primer sequence, where the identimer comprises a detectable marker at its 5' end. The system is useful for identifying any
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying and characterizing gene expression in samples, for identifying mRNAs expressed at different levels, comprises employing identimer having a oligo-dT primer of a specific sequence and a detectable marker at its 5' end.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic.
                                         Zinc finger domain; cancer; PCR primer; pRS315HisMCS; ss.
                                                                                                                           17-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-NOV-2000; 2000US-0244933P.
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                                                                                 Primer #1 used to make reporter plasmid pRS315HisMCS
                                                                                                                                                                                                        AAS13049 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to systems for identification and characterisation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Page 11; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 24 BP; 3
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                                                                                                                                                                                                                                                                                                                                             1518 ТТАЛАЛАЛАЛАЛАСТАЛА 1537
                                                                                                                                                                                                                                                                                                          22
                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
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nilarity 90.0%;
Conservative (
                                                                                                                        (first entry)
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                                                                                                                                                                                                        DNA;
                                                                                                                                                                                                                                                                                                                                                                                       0;
                                                                                                                                                                                                                                                                                                                                                                                       Score 16.8; DB 1;
Pred. No. 1.3e+02;
0; Mismatches 2;
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                                                                                                                                                                                                                                                                                                                                                                                 1.3e+02;
2;
                                                                                                                                                                                                                                                                                                                                                                                                                            Length 24;
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The invention relates to a method of identifying a zinc finger domain CC that recognises a target site on a DNA. The method comprises expressing CC hybrid nucleic acids with a test zinc finger domain in cells containing a reporter construct, where the reporter gene is expressed above a given CC level when a transcription factor recognises a recruitment and a target Rite of a promoter, and not only the recruitment site of the promoter. CC The method is used to: (a) identify a zinc finger domain that recognises a target site on a DNA; (b) determine whether a test zinc finger domain CC recognises a target site on a promoter; (c) generate a nucleic acid that CC encodes a chimeric zinc finger potein; and (d) identify DNA sequences recognised by zinc finger domains. The method can be used to design novel polypeptides that bind to a specific site on a DNA. The method can facilitate the customised generation of new polypeptides that can cregulate the expression a selected target e.g. a gene required by a polypeptides that can be captivated and overexpressed, a gene required for cancerous growth can be activated and overexpressed. The method can be used in vivo which can be identification of polypeptides that can be canables identification of polypeptides that bind to a specific site on a DNA in the intracellular milieu. The present sequence represents the container #1 used to make reporter plasmid pRS315HisMCS, which was used in vivo the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Identifying a zinc finger domain for e.g. designing new polypeptides that bind to a specific site on a DNA, comprises expressing hybrid nucleic acids with a test zinc finger domain in cells.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23-AUG-2001.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Kwon Y,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hwang
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23 BP; տ A; 7 C; 7 G; 4 T; 0 U; 0 Other;

밁 Query Match Best Local S Matches 19 440 CGGCGACGAATCGCCGGCTCTAG 462 23 l Similarity
19; Conserv CGTCGACGAATTCCCGGGTCTAG 1 Conservative 1.2%; <u>,</u> Score 16.6; DB 1; Pred. No. 1.5e+02 Pred. No. 1.50 0; Mismatches DB 1; Length Indels <u>.</u> Gaps 0

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ACC41599/C
ID ACC415
XX ACC415
AC ACC415
XX AC
                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic
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WO2003016571-A1

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RESULT 67
AAQ30446/c
ID AAQ304
XX AAQ304
AC AAQ304
XC AAQ304
CO 125-MAR
DT 25-MAR
DT 07-DEC
XX Oligor
CO O
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention describes a library comprising polypeptides. Each polypeptide comprises a first or second zinc finger domain. The domains of each polypeptide are identical to a zinc finger domain from a naturally occurring protein and either do not occur in the same naturally occurring protein or occur in the same naturally occurring protein in a different configuration than in the polypeptide. The domains vary among polypeptides. Also described: (1) producing chimeric nucleic acids; (2) generating an artificial zinc finger polypeptide that specifically binds to a target DNA site; and (3) identifying a nucleic acid encoding a zinc finger polypeptide that specifically recognises a target DNA site. The library can be used for producing chimeric nucleic acids. ACC41551 to ACC41758 and ABR40919 to ABR41015 represent nucleotide and amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25-MAR-2003
07-DEC-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 23 BP; 5 A; 7 C; 7 G; 4 T; 0 U; 0 Other;
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22-APR-2002;
                                                                                                                                                                                                                                                                                                                                          Key
modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human tumour necrosis factor receptor mRNA; AIDS; modified; HIV; R\dot{S}V_i HPV; malignancy; hepatitis; inflammation; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Oligomer TNFR941 for forming triplex with HUMNFR target duplex.
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       23-NOV-1990;
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                                                   25-NOV-1991;
                                                                                                                                                    WO9209705-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sequences given in the exemplification of the present invention
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19; Conser
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CGTCGACGAATTCCCGGGTCTAG 1
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2002US-0374355P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (revised)
(first entry)
     90US-00617907
                                                     91WO-US008811.
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/mod_base=
18
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                                                                                                                                                                                                     notes
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                                                                                                                                                                                                                               base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   polypeptides having nucleic acids.
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Pred. No. 1.5e.
O; Mismatches
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                                                                                                                                                                                                     N6 methyl-8-oxo
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                                                                                                              Query Match
Best Local S
Matches 17
                                                                                                                                    The synthetic oligomer is capable of forming a triplex at physiological pH with a purine rich target sequence by coupling into the major groove of the duplex. The specific target sequence of this oligomer is the human tumour necrosis factor receptor mRNA beginning at nucleotide 2354 contg. a purine rich sequence concd. on one strand of the duplex. The oligomer, and others like it are useful in diagnosis and therapy of diseases characterised by specific DNA duplex targets, e.g. HPV, HER, HIV, hepatitis B, herpes, malignant tumours and inflammation. The triple helices form under mild conditions thus assays may be carried out without subjecting the test specimen to harsh conditions. See also AAQ256448. (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18-JAN-1991;
08-APR-1991;
17-APR-1991;
17-APR-1991;
17-APR-1991;
                                                                                                                                                                                                                                                                                                                                                     New oligomers contg. modified bases -doublet in a DNA duplex, for treating herpes malignancy and inflammation.
                                                                                                                                                                                                                                                                                                                             Claim 12;
                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1992-217083/26.
                                                                                                              Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                            Froehler
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (GILE-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    27-SEP-1991;
                1519 TAAAAAAAAAAAGTAAA 1536
18
                                                      1 Similarity 94.4
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                                                                                                             BP; 1 A; 1 C; 0 G; 16 T; 0 U;
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91US-00683420.
91US-00686544.
91US-00686546.
91US-00686547.
91US-00766733.
                                                                                                                                                                                                                                                                                                                            72; 77pp;
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                                                                1.2%;
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                                                                                                                                                                                                                                                                                                                          English.
                                                                                                                                                                                                                                                                                                                                                                                                                                            Matteucci
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                                                                   Score 16.4;
Pred. No. 2.
                                                        Mismatches
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                                                                                                                                                                                                                                                                                                                                                                     which form a triplex with G-C and diagnosing HIV, hepatitis,
                                                                   4; DB 1;
2.2e+02;
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                                                                                                              0 Other;
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                                                        Indels
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RESULT 68
AAZ72015
ID AAZ72
XX AAZ72
XX AAZ72
XX IO-SE
XX Humar
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XX 28-OC
XX 21-AF
PR 23-NC
XX XX 21-AF
PR 23-NC
XX COher
                                                                                                                                                                                                                  Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation; haplotyping; single nucleotide polymorphism; SNP; PCR primer;
                                                                                                                                                                                                                                                                                       Human biallelic marker upstream amplification primer SEQ ID NO:6371.
                                                                                                                                                                                                                                                                                                                                                                         AAZ72015 standard; DNA;
                                                      21-APR-1998;
23-NOV-1998;
                                                                                             21-APR-1999;
                                                                                                                         28-OCT-1999.
                                                                                                                                                  WO9954500-A2
                                                                                                                                                                                                       diagnosis; ss.
                                                                                                                                                                                                                                                                                                                   10-SEP-2001
                                                                                                                                                                                                                                                                                                                                              AAZ72015;
                                                                                                                                                                            sapiens.
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                                                      98US-0082614P.
98US-0109732P.
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Cohen D,

Blumenfeld M,

Chumakov

(GEST ) GENSET.

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ARESULT 69
ADD784494/c
AD 78494/c
AD 78784
AC ADD784
AC ADD784
AC Chimer
XX GFAT;
KW GFAT;
KW GRAT;
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N.B. The SEQ ID NOB 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and 3357, are not actually given a sequence in the Sequence Listing from the
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Best Local
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                                                                                                                                          17-OCT-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GFAT; Antidiabetic; Cardiant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12-AUG-2004
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                                  Broschat
                                                                                                                                                                                                                                                                                                                                                                                                                                                   modified_base
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                                                                                                                                                                                                 02-OCT-2003;
                                                                                                                                                                                                                                                                                                               WO2004035763-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      reperfusion;
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                                                                                      (PHAA ) PHARMACIA CORP.
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17; Conser
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         88.
                                                                                                                                             2002US-0419268P.
                                                                                                                                                                                                 2003WO-US033332
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                               Crosby SD
                                                                                                                                                                                                                                                                                                                                                                                                                                                      17. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /mod_base= other
/note= "2-methoxyethyl wing"
                                                                                                                                                                                                                                                                                                                                                                                                                         *tag= b
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e= "2-methoxyethyl wing"
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Pred. No. 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     amidotransferase; diabetes; ischemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
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nucleic acid encoding (GFAT), for treating ischemia/reperfusion
                                                                                                                                                                               New compounds, particularly antisense oligonucleotides targeted to a nucleic acid encoding glutamine-fructose-6-phosphate amidotransferase (GFAT), for treating diabetes, a cardiovascular or neurologic disorder
                                                                                                                                                   Claim 4; SEQ ID
                                                                                                                                                  NO 2293; 175pp; English.
                                                                                                                                                                                   disorder
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The present invention relates to a compound which specifically hybridizes with a nucleic acid molecule encoding GPAT, and inhibits the expression of GPAT. Specifically claimed are antisense oligonucleotides capable of modulating the expression of GPAT, and which comprise any of the 3063 sequences of 20 base pairs, given in the specification. The compound, composition and methods are useful for treating a disease or condition associated with GPAT, such as a disease or condition, e.g. diabetes, a cardiovascular or neurological disorder, ischemia/reperfusion injury. They are also useful in research and diagnostics for modulating the expression of GPAT. The present sequence represents a chimeric phosphorothicate oligonucleotide with 2'-MOE wings and a deoxy gap, these oligonucleotides inhibit human GPAT expression.

Sequence

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11 A; 2 C; 2 G; 5 T; 0 U; 0 Other;

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ARESULT 70
ARESULT 70
ARAZZ6632
ID ARAZZ67
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cell viability; loss of heterozygosity; precancerous condition; ASI; allele specific inhibitor; somatic cell; diagnosis; prevention; atherosclerotic plaque; premalignant metaplastic lesion; endometriosis; dysplastic lesion; benign tumour; polycystic kidney disease; transplant; graft versus host disease; malignant cell removal; bone marrow; ss.
                                                                                                                                                                                                                                                          WPI; 1998-521232/44.
                                                                                                                                                                                                                                                                                                                     Housman D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               24-SEP-1998
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                                                                                                                                                                                                                                                                                                                                                                                       (VARI-) VARIAGENICS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-MAR-1997;
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17; Conserv
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                                                                                                                                                                                                                                                                                                                     Ledley FD,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               inhibitor; cancer; treatment; cell growth;
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                                                                                                                                                                                                                                                                                                                        Stanton VP
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Pred. No. 2e+0
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 1; Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
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Disclosure; Fig 7; 605pp;

English. novel

describes

b

method for identifying

an inhibitor

Identifying target genes for allele-specific drugs - used for diagnosis, prevention and treatment of, e.g. cancers, atherosclerotic plaque, dysplastic lesions, endometriosis or graft versus host disease.

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RESULT 71
AAQ75730
AAQ75730
AC AAQ75
AC
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Best Local S
Matches 17
                                                                               A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GRNESEQ files AAQ75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Page 8; 11pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Analysis of cDNA and gene expression - by digestion with restriction enzymes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1514 TTAATTAAAAAAAAAAA 1531
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17; Conserv
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ilarity 94.4%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        by amplification of mRNA followed
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Query Match

Sequence 21 BP; 2 A; 1 C; 0 G; 18 T; 0 U; 0 Other;

1.2%;

Score 16.2;

DB 1;

Length 21;

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RESULT 72
AAQ75633/c
ID AAQ756
XX AAQ756
XX AAQ756
XX AAQ756
XX AAA19
E Revers
XX AAA19
E RO 01-NOV
E AAA
E AAAA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GRNESEQ files AQ75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                 Analysis; gene expression; reverse transcription; primer; cDNA; aggregate; restriction enzyme; ss.
                                                                                                       Reverse transcription primer used in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Page 6; 11pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Analysis of cDNA and gene expression - by amplification of mRNA followed by digestion with restriction enzymes.
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                                                                                                                                                                                                                      AAQ75752;
                                                                                                                                                                                                                                                                              AAQ75752 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 21 BP; 1 A; 0 C; 1 G; 19 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (NITE ) NIPPON TELEGRAPH & TELEPHONE CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 16.2; DB 1;
Pred. No. 2.1e+02;
                                                                                                          cDNA analysis technique.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 21;
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RESULT 74
AAQ75733/c
ID AAQ757
XX AAQ757
XX AAQ757
XX AAQ196
DE Revers
XX Analys
KW Aggreg
XX Synthe
XX JP0630
XX I6-APR
XX 16-APR
XX I6-APR
XX I6-APR
XX UITE
XX WPI; 1
XX WPI; 1
XX WPI; 1
XX WPI; 1
XX Analys
PT Analys
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A method for the analysis of cDNA comprises double-stranded cDNAs by using an aggregate
                                             Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAQ75733 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 8; 11pp; Japanese.
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                                                                                                                      WPI; 1995-018287/03.
                                                                                                                                                                             16-APR-1993;
                                                                                                                                                                                                          16-APR-1993;
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                                                                                                                                                                                                                                                                                                                          aggregate;
                                                                                                                                                                                                                                                                                                                                                                   Reverse transcription primer used in cDNA analysis technique.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 21 BP; 2 A; 1 C; 1 G; 17 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                    JP06303997-A
                                                                                                                                                                                                                                                                                                                                         Analysis; gene expression; reverse transcription; primer; cDNA;
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                                                                                                                                                  (NITE ) NIPPON TELEGRAPH & TELEPHONE CORP
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nes 18; Conserv
                                                                          alysis of cDNA and gene expression digestion with restriction enzymes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1302
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                                                                                                                                                                                                                                                                                                                            restriction enzyme;
                                             Page 8; 11pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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                                                                                                                                                                               93JP-00112515.
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                                                                                         amplification of
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   (a) preparing an aggregate of mRNAs and a plural type
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                                                                                          mRNA followed
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RESULT 76 AAQ75629/c ID AAQ75629

standard; DNA;

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                                                                                                                                         A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AAO75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             labelled reverse transcription primers (GENESEQ files AAQ75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                                                                                                                Sequence 21 BP; 1 A; 0 C; 0 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                      Analysis of cDNA and gene expression - by amplification by digestion with restriction enzymes.
                                                                                                                                                                                                                                                                                                                                                  WPI; 1995-018287/03.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAQ75681;
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                1516 AATTAAAAAAAAAAAAGTAAA 1536
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                                                        Conservative
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85.7%;
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                                                                    Score 16.2; DB 1;
Pred. No. 2.1e+02;
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Pred. No. 2.1e+02,
0; Mismatches
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                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                transcription; primer; cDNA;
                                                                                     DB 1; Length 21;
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Best Local Similarity
Matches 18; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Analysis; gene expression; reverse transcription; primer; cDNA; aggregate; restriction enzyme; ss.
                        16-APR-1993;
                                                                        01-NOV-1994
                                                                                             JP06303997-A
                                                                                                                     Synthetic
                                                                                                                                           aggregate;
                                                                                                                                                      Analysis; gene expression; reverse transcription; primer; cDNA;
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                                                                                                                                                                                                      04-AUG-1995
                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 6; 11pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Analysis
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  (NITE ) NIPPON TELEGRAPH & TELEPHONE CORP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                of cDNA and gene expression - tion with restriction enzymes.
                                                                                                                                                                                                                                                    standard; DNA;
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                                                                                                                                                                                                                                                                                                                                    ATTAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                              ATTCANAAAAAAAAAAAAA 1
                                                                                                                                           restriction enzyme;
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                                                                                                                                                                                                     (first entry)
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Pred. No. 2.1e+02;
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                                                                                                                                                                             in cDNA analysis technique.
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                                                                                                                                                                                                                                                                                                                                                                                   DB 1;
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Best Local (
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                            A method for the analysis of cDNA comprises (a) preparing an aggregate of double-stranded cDNAs by using an aggregate of mRNAs and a plural type of labelled reverse transcription primers (GENESEQ files AAQ75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
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                                                                                                                                                                      Disclosure; Page 7; 11pp; Japanese.
                                                                                                                                                                                                                 Analysis of cDNA and gene expression - by
                                                                                                                                                                                                                                                 WPI; 1995-018287/03.
                                                                                                                                                                                                                                                                                                              16-APR-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 aggregate;
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                                                                                                                                                                                                                                                                               (NITE ) NIPPON TELEGRAPH & TELEPHONE CORP
                                                                                                                                                                                                   digestion with restriction enzymes.
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85.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  enzyme;
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Pred. No. 2.1e
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Query Match Best Local Similarity

1.2%;

Score 16.2; DB 1; Pred. No. 2.1e+02;

Length

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RESULT 79
AAQ75680/c
ID AAQ75680;
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AC AAQ75680;
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AC AAQ75680;
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AN ANALYSIS; gene expre
KW aggregate; restricti
CS Synthetic.
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KW aggregate; restricti
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AN ANALYSIS; gene expre
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AN JP06303997-A.
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DE 01-NOV-1994.
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V 16-APR-1993; 93JP-
XX
PD 01-NOV-1994;
AN (NITE ) NIPPON TELEG
XX
PD 16-APR-1993; 93JP-
XX
ANALYSIS of CDNA and
RESULT 80
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  Synthetic
                                                     Analysis; gene expression; reverse transcription; primer; cDNA; aggregate; restriction enzyme; ss.
                                                                                                                                       Reverse transcription primer used in cDNA analysis technique.
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by digestion with restriction enzymes.
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                                                                Analysis of cDNA and gene expression - by digestion with restriction enzymes.
                                                                                                WPI; 1995-018287/03.
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A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AAQ75547-Q75798)

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RESULT 83
AAQ75761/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         and using the aggregate of mRNAB as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAB with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAB in seperate lanes. The method can be used to analyse gene expression rapidly and easily
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RESULT 84
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Best Local Similarity
Matches 18; Conserv
The invention provides isolated Toxoplasma gondii nucleic acids that encode immunogenic polypeptides. The T. gondii nucleic acid molecules, immunogenic proteins and antibodies to the proteins can be used to inhibit T. gondii occyst shedding in a cat due to infection with T. gondii. They can be used for preventing T. gondii infection and for preventing the spread of T. gondii infection. They can also be used for detecting T. gondii infection. They can also be used for perventing the spread of T. gondii infection method can be used to detect parasite cysts or occysts in feces, e.g. from enteric apicomplexa occysts such as Cryptosporidium occysts and Toxoplasma occysts. Sequences AAX91276-395 primers used in RT-PCR analysis of nucleic acid sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A method for the analysis of cDNA comprises (a) preparing an aggregate (double-stranded cDNAs by using an aggregate of mRNAs and a plural type (labelled reverse transcription primers (GENESEQ files AAO75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Milhausen MJ,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Immunogenic protein; Toxoplasma gondii protein; oocyst shedding; cat;
T. gondii infection; enteric apicomplexa oocyst; Cryptosporidium oocyst;
                                                                                                                                                                                                                                                                                                                                                                                         isolated Toxoplasma gondii nucleic acids used, ection caused by this microorganism.
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                                                                                                                                                                                                                                                                                                                              Page 69; 381pp; English.
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85.7%;
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Pred. No. 2.1e+02;
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standard; DNA;

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                                                                                                                                                                                                                                              This invention describes novel purified aptameric oligonucleotides which have antimicrobial, cytostatic and immunosuppressive activity. The oligonucleotides are useful for binding to and preventing or inhibiting the biological function of a protein kinase or a target molecule and for detecting the presence or absence of a target molecule in biological samples. The oligonucleotides are also useful for prophylactic and therapeutic treatment of diseases such as cancer, autoimmune diseases and diseases caused by pathogenic microorganisms. This sequence represents a primer used in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Oligonucleotides inhibiting protein kinase, useful for treating diseases such as cancer and autoimmune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Antimicrobial; cytostatic; immunosuppressive; protein kinase; prophylactic; therapy; treatment; cancer; autoimmune disease; pathogenic microorganism; primer; ss.
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                                                Microbial virulence factor; genetic predisposition; Alzheimer's disease; Parkinson's disease; echizophrenia; frontotemporal lobe dementia; hereditary multi-infarct dementia; primary X-linked mental retardation; dementia; myopathy; familial British dementia; psychiatric disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Detecting parasite oocysts or cysts in feces, comprises eluting DNA from sample into aqueous solution by heating, amplifying DNA with primers specific for oocysts or cysts being detected, and detecting amplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    oocyte shedding;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Immunogenic protein; oocyst; faeces; ss; enteric apicomplexa oocy
Cryptosporidium oocyst; Toxoplasma oocyst; Giardia cyst; vaccine;
                                                                                                                                    Plasmodium falciparum integral membrane protein 2B gene fragment
                                                                                                                                                                      18-JUN-2002
                                                                                                                                                                                                                                       AAD31930
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 21 BP; 4 A; 2 C; 9 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 2; Page 25; 188pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2001-529100/58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Toxoplasma gondii.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         17-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAS42690;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (MILH/) MILHAUSEN M J.
                                                                                                                                                                                                                                                                                                                                                                                                        Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gondii immunogenic
                                                                                                                                                                                                                                                                                                                                          996 TTCTGTGGAGAATAACGGCTG 1016
                                                                                                                                                                                                                                                                                                                                                                                         18;
                                                                                                                                                                                                                                                                                                                        μ
                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                       standard;
                                                                                                                                                                                                                                                                                                                        TECTETEGAGAATGATGGCTG
                                  animal; integral membrane protein 2B
                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  97US-00994825
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9805-00216393.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                     1.2%;
85.7%;
                                                                                                                                                                                                                                       DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        protein
                                                                                                                                                                                                                                        21
                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                                                                                                                        Score 16.2;
Pred. No. 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PCR primer
                                                                                                                                                                                                                                                                                                                        21
                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                        2.1e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        nTG65
                                                                                                                                                                                                                                                                                                                                                                                                                           멂
                                                                                                                                                                                                                                                                                                                                                                                         3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        #2.
                                  gene; ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     apicomplexa oocyst;
                                                                                                                                                                                                                                                                                                                                                                                                                        Length
                                                                                                                                                                                                                                                                                                                                                                                                                          21
                                                                                                                                                                                                                                                                                                                                                                                         <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                          0
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Plasmodium falciparum

21-OCT-2002 ABK99279;

(first entry)

ABK99279 standard; RNA; 21

ВP

Hepatitis C virus

(HCV) NS5B

replicase RNA synthesis template

RNA polymerase

Hepatitis C virus; HCV; NS5B replicase; ss;

Synthetic

밁 á

21

Matches

Conservative

0

0

Gaps

0

1509 ТАСТСТТААТТАААААААА 1529

Local

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CC fragment of a nucleic acid encoding a putative microbial virulence factor for the identification of a disease caused by mutations or for a genetic CC predisposition. The invention also relates to a method for identification of a disease which comprises detecting the presence of a mutation within CC anucleic acid sequence of the fragment of virulence factor in a tissue correct ansplantation and where the sequence is inserted in the 3' UTR CC (untranslated region) of the gene and mutation is found in the CC (untranslated region) of the gene and mutation is found in the CC (untranslated region) of the gene and mutation is found in the CC plyadenylation signal of G1. The method is useful for identification of CC plyadenylation signal of G1. The method is useful for identification of CC plyadenylation signal of G1. The method is useful for identification of CC parkinson's disease which is from Alzheimer's disease.

CC parkinson's disease, schizophrenia, myopathy, other forms of dementias of dementia, bereditary multi-infarct dementia, familial British dementia, constituted and the constant parkinson Lewy-Body CC primary X-linked mental retardation) and where the human disease
                                                                         Query Match
                                                                                                                                                                                                                                                    constitutes a predisposition or a genetic variation, the pathological manifestation of which is triggered by medicaments or drugs which is preferably cannabis, where the manifestation comprises any forms of dementia, schizophrenia or related psychiatric disorders. The invention also relates to transgenic animals (e.g. comprising a non-functional endogenous cannabinoid receptor (CB1) gene) which are useful for the identifying or screening of compounds that have an effect on the activity, expression or regulation of the translated protein (e.g. CB1 protein). The present sequence is plasmodium falciparum integral membran protein 2B gene fragment. This sequence is used in the exemplification of the translated protein continuation of the con
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Use of DNA sequence having fragment of nucleic acid encoding putative microbial virulence factor useful for identification of disease e.g. Alzheimer's disease, caused by mutations or for genetic predisposition.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI;
                                                                                                                                                       Sequence 21 BP; 9
                                                                                                                                                                                                                             protein 2B gene fragment.
the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 1; Page 22; 52pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16-AUG-2000; 2000WO-IB001127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-FEB-2001; 2001WO-IB000189.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200214546-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2002-241910/29
                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     invention relates to the use of a DNA sequence comprising
                                                                                                                                                   A; 0 C; 0
                                  1.2%;
                                                                                                                                                   G; 12 T; 0 U;
Pred. No. 2.1e+02;
                                                                         Score 16.2; DB 1; Length 21;
                                                                                                                                                       0 Other;
                                                                                                                                                                                                                                                                                                               membrane
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RESULT 90
ADD24723/c
ID ADD247
XX ADD247
XX ADD247
XX ADD247
XX Human
XX Human
XX diagno
KW diagno
KW dalleii
KW detoxi
KW detoxi
KW CYP3A4
XX SS Homo 8
XX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a replicase complex comprising a hepatitis C CC virus (HCV) NSSB replicase protein, a linear nucleic acid template and a CC complementary nucleic acid primer which is annealed to the 3' terminus of CC the template, where the template is at least three nucleotides and the CC primer is two or three nucleotides, and the template and primer do not CC form a stable duplex in solution in the absence of the HCV NSSB protein. CC The complex is useful for detecting HCV replicase activity and permits CC establishment of sensitive RNA-dependent RNA polymerase assays to screen CC and evaluate antiviral inhibitors and to improve the specificity and CC efficacy of the inhibitors. The complex is also useful in the development CC of a reliable system for determining kinetic and thermodynamic constants CC mechanistic inhibitors for mis-incorporation and investigation of CC mechanistic inhibitors for mis-incorporation or chain termination. CC Specifically, the short RNA template and primer pairs are useful in the CC and mechanistic properties of NSSB replication and ultimately in the CC and mechanistic properties of NSSB Newly identified inhibitors of CC replicase activity may be used for developing anti-HCV pharmaceuticals. CC Sequences ABK99271-ABK99296 represent HCV NSSB replicase RNA synthesis
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local
                                                           diagnostic; pharmaceutical tolerance; side effect; drug; human; allic variability; polymorphism; phase I; phase II; cypinechanism; primer; probe; NAT2; CYP2D6; CYP1A2; detoxification mechanism; PCR; primer; probe; NAT2; CYP2C19; CYP2E1; DPD; CYP3A4; mEH; TPMT; MTHFR; paraoxonase; CYP2C9; CYP2C19; CYP2E1; DPD;
                                                                                                                                                                                                    15-JAN-2004
                                                                                                                                                                                                                                           ADD24723;
                                                                                                                                                                                                                                                                               ADD24723 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel replicase complex comprising hepatitis C virus NS5B replicase, a 3 nucleotide-long template to which a 2 nucleotide-long primer is annealed, and template and primer which do not form a stable duplex in the absence of HCV NS5B.
                                                                                                                                                           Human CYP2E1 mutant T7632A probe H210.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21 BP; 0 A; 14 C; 7 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example; Page 6; 17pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Zhong W,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             07-APR-2000; 2000US-0195852P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    06-APR-2001; 2001US-00828034.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US2002064771-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                  426 GGCGGCTGCGGCGCCGGCGAC 446
                                                                                                                                                                                                                                                                                                                                                                                21
                                                                                                                                                                                                                                                                                                                                                                                                                                                             18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FERRARI E
                                                                                                                                                                                                                                                                                                                                                                                GGCGGCGGCGGCGGCGGC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hong Z,
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ferrari
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1.2%;
                                                                                                                                                                                                                                                                                  ВÞ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 16.2; DB 1; Length 21; Pred. No. 2.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
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17-DEC-2002; 2002US-00321856

16-OCT-2003. US2003194393-A1 Toxoplasma Toxoplasma T. gondii sequencing primer #92

gondii; oocyst shedding; genetic vaccine; vaccine; ss;

gondii.

26-FEB-2004 ADG17286;

(first entry)

ADG17286 standard; DNA; 21 BP

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RESULT 91
ADG17286
ID ADG17
XX ADG17
XX ADG17
XX ADG17
XX Z6-FE
XX T0XOF
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This invention describes a novel diagnostic kit for determining tolerance CC of pharmaceuticals in humans by determining allalic variability of at CC least two polymorphisms of a human enzyme involved in phase I and/or II CC of the detoxification mechanism in a blood, tissue or other human sample, where tolerance is determined from presence or absence of alleles. The CC kit comprises two pairs of oligonucleotide primers, in which each pair CC amplifies, by PCR, part of a gene for a human detoxification mechanism-CC associated enzyme. The kit may also contain two further pairs of CC oligonucleotides, serving as probes for detection of amplified DNA CC strand of one allele of the target gene. The probes are labelled with CC fluorophores (IC-Red640 or IC-Red705 for 5'-labelling or fluorescein for CC fluorophores (IC-Red640 or IC-Red705 for 5'-labelling or fluorescein for CC cyp3A4, mEH, TPMT, where the enzymes detected include NAT2, CYP2D6, CYP1A2, CC CYP3A4, mEH, TPMT, which each and/or to predict if a subject will comply to establish a suitable dose and/or to predict if a subject will comply to establish a suitable dose and/or to predict if a subject will comply to establish a suitable dose and/or to predict if a subject will comply to establish a suitable dose and/or to predict if a subject will comply to establish a suitable dose and/or to predict if a subject will comply to establish a suitable dose and/or to predict if a subject will comply to establish a suitable dose and/or to predict if a subject will comply to establish a suitable dose and/or to predict if a subject will comply to establish a suitable dose and/or to predict if a subject will comply to establish a suitable dose and/or to predict if a subject will comply to establish a suitable dose and/or to predict if a subject will comply to establish a suitable dose and/or to predict if a subject will comply to establish a suitable dose and/or to predict if a subject will comply to the mile to the molecular level. This sequence represents a probe used 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 6; Page 80; 156pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Diagnostic kit,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24-AUG-2001; 2001DE-01040651.
30-APR-2002; 2002DE-01019373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                detoxification enzymes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Diagnostic kit, useful for assessing a subject's tolerance of drugs, comprises reagents for determining alleles of genes encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2003-290079/28.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Waschuetza S, Schnakenberg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22-AUG-2002; 2002WO-EP009386
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1248 TTTGTTTTGTTTTTAATCAG 1268
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14 A; 1 C; 1 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 16.2;
Pred. No. 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
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ADKOILT 92
ADKOILZ
XX
ADKOIL2
XX
ADKOIL2
AC ADKOIL2
XX
DT 06-MAY
XX
BS; hy
XX
BS; hy
XX
BIOOOd;
XX
Rattus
XX
Rattus
PN DE1020
XX
DE1020
XX
DE4-FEB
XX
CD 04-SEP
XX
DEGS
XX
DEGS
XX
DEGS
XX
AC DEGS
XX
DEGS
XX
DEGS
XX
DEGS
XX
DEGS
XX
AC DEGS
XX
DEGGS

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to an isolated Toxoplasma gondii protein. The protein is useful for inhibit cocyst shedding by cats infected with Toxoplasma gondii. The protein is useful for preventing or ameliorating diseases caused by infection with T. gondii. The nucleic acid can be used as genetic vaccine which encodes the protein. The protein and the nucleic acid are used as diagnostic respects for detection of T. gondii infection. The present sequence is used in the exemplification of the
This invention describes a novel method for sorting single-stranded nucleic acids by isolation and hybridisation of nucleic acid pools, then reading out, where the nucleic acids are selectively bound using capture
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Rattus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rat DNA microarray capture oligonucleotide #16.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADK01296 standard; DNA; 21 BP
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                                                                                                                                                                                                   Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-FEB-2002; 2002DE-01008794.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-FEB-2002; 2002DE-01008794.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           04-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               вв; hybridisation; capture oligonucleotide; pattern; mucoвal; hair root;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 2; SEQ ID NO 236; 198pp; English.
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                                                                                                                                                                                                                                                                                           WPI; 2003-714082/68
                                                                                                                                                                                                                                                                                                                                                                                                         (DEGS ) DEGUSSA BIOACTIVES GMBH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DE10208794-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    blood;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 21 BP; 4 A; 2 C; 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2003-899768/82
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18-DEC-1998;
                                                                                                                                                                              and constant
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             996 TTCTGTGGAGAATAACGGCTG 1016
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 nerve;
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                                                                                                                                                                           regions.
                                                                                                                   5; 8pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 germ cell; food additive; food supplement
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    97US-00994825.
98US-00216393.
                                                                                                                                                                                                                                                                                                                                                 Dieck
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.2%;
                                                                                                                                                                                                                                                                                                                                                 HT,
                                                                                                                                                                                                                                                                                                                                                 Hoppe H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <u>,,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 16.2;
Pred. No. 2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                   Computer variable anchor region, the complement of which is present at the comprises all possible combinations of up to 10 nucleotides to allow that comprises all possible combinations of up to 10 nucleotides to allow CC binding of particular sorte of single stranded nucleic acids. The capture CC agents are particularly locked nucleic acids (LNA) and the anchor region CC comprises a sequence of 10-50, particularly 15-25, T residues. The CC capture oligonucleotides are blottinylated and immobilised on a surface by CC interaction with streptavidin. The matrix is of plastic, ceramic, glass, CC metal, resin, gel, crystalline material and/or membrane, having semi-CC conducting properties and especially in the form of a chip. Its surface CC is particularly a layer of (bio)molecular filaments and binding of single CC trystalline material field or through a molecular, CC physical, stimulated by an electrical field or through a molecular sieve. CC The method is used (i) for analysis of patterns, especially in mucosal, acids troot, blood, nerve or germ cells and (ii) for determining the CC acids (amino, carboxylic or fatty acid) or their derivatives, ealts and CC acids (amino, carboxylic or fatty acid) or their derivatives, ealts and CC mixtures. The method provides rapid, inexpensive and reproducible CC acids (amino, carboxylic or fatty acid) or their derivatives, ealts and CC acids (amino, carboxylic or fatty acid) or their derivatives, ealts and CC can detect very small differences in pools of nucleic acids from cells. It completes in the nucleic acid in a cell, and CC can detect very small differences in the nucleic acid facid in a cell, and CC can detect were small differences in the nucleic acid facid in a cell, and CC can detect were small differences in the nucleic acid facid in a cell, and CC can detect were small differences in the nucleic acid sfrom cells. It completes acids from cells and complete pattern of all nucleic acid in a cell, and CC capture probes used in the method of the invention.
                                                                                                                                                                                                                                                                                          Query Match
Best Local
                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     agents that are (a) immobilised on the surface of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonucleotides
ADK01316 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                   Sequence 21
                                                                                                                                                                                                       1516 AATTAAAAAAAAAAAAGTAAA 1536
                                                                                                                                                21
                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                AATAAAAAAAAAAAAAAAAAAA
                                                                                                                                                                                                                                                                                                                                                                                   BP; 1 A; 0 C; 0 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                          1.2%;
21
ВP
                                                                                                                                                                                                                                                                 <u>,</u>
                                                                                                                                                                                                                                                                                          Score 16.2; DB 1;
Pred. No. 2.1e+02;
                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                    ω
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                                                                                                                                                                                                                                                                                                                     Length 21;
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                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                              Gaps
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ARESULT 93
ADXO13
XX
ADXO13
XX
ADXO13
AC ADXO13
XX
DT 06-MAY
XX
Es; hy
XX
Blood;
XX
Rattus
XX
Rattus
XX
CA
DE1020
XX
CB
PD 04-SEP
XX
PD 05-FEB
XX
PD 04-SEP
XX
PD 05-FEB
XX
PD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              capture oligonucleotide #36.
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ss; hybridisation; capture oligonucleotide; pattern; mucosal; hair root; blood; nerve; germ cell; food additive; food supplement.

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Rattus sp
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28-FEB-2002; 2002DE-01008794.
                                      04-SEP-2003.
                                                                            DE10208794-A1.
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(DEGS ) DEGUSSA BIOACTIVES GMBH.

28-FEB-2002; 2002DE-01008794.

Boekenkamp D, Dieck HT, Hoppe

WPI; 2003-714082/68.

Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable and constant regions

Example; Page 5; 8pp; German

patterns and screening active agents, uses capture agent with variable and constant regions.

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RESULT 94
ADK01292/c
ID ADK012
XX ADK012
XX ADK012
XX O6-MAY
XX B8; hy
KW B8; hy
KW blood;
XX DE1020
XX DE1020
XX PEE
XX DE-FEE
XX 28-FEE
XX 28-FEE
XX 28-FEE
XX B0eken
XX DECS
PT Sortir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cc binding of particular sorts of single stranded nucleic acids. The capture comparises as sequence of 10-50, particularly 15-25, T residues. The capture comparises a sequence of 10-50, particularly 15-25, T residues. The cc capture oligonucleotides are biotinylated and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, cometal, resin, gel, crystalline material and/or membrane, having semiconducting properties and especially in the form of a chip. Its surface is particularly a layer of (bio)molecular filaments and binding of single cutranded nucleic acids to the surface is (quasi) covalent, supramolecular, compassionally in the form of a chip. Its surface is particularly a layer of (bio)molecular filaments and binding of single cutranded nucleic acids to the surface is (quasi) covalent, supramolecular, compassionally in the form of a chip. Its surface cutrants and (ii) for analysis of patterns, especially in mucosal, hair root, blood, nerve or germ cells and (ii) for determining the cactivity of pharmaceuticals and/or nutritional compounds, e.g. food cadditives or supplements, especially minerals, trace elements, organic caids (amino, carboxylic or fatty acid) or their derivatives, salts and cardiscutes. The method provides rapid, inexpensive and reproducible card detect very small differences in pools of nucleic acids from cells. It can detect very small differences in the nucleic acid male in a cell, and can detect very small differences in the nucleic acid pool. Since the companion of nucleic acid pools, not individual companion of nucleic acid pools of the invention.
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Best Local Similarity
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     Sorting single-stranded nucleic acid, useful for analyzing expression
                                                       WPI; 2003-714082/68
                                                                                                                                                                                                                                                                                                                                04-SEP-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ss; hybridisation; capture oligonucleotide; pattern; mucosal; hair root; blood; nerve; germ cell; food additive; food supplement.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             06-MAY-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADK01292 standard; DNA; 21 BP
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                                                                                                            Boekenkamp D,
                                                                                                                                                                                                                      28-FEB-2002; 2002DE-01008794.
                                                                                                                                                                                                                                                                         28-FEB-2002; 2002DE-01008794
                                                                                                                                                                                                                                                                                                                                                                                     DE10208794-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Rat DNA microarray capture oligonucleotide #12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18;
                                                                                                                                                                    DEGUSSA BIOACTIVES GMBH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTAAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                            Dieck HT, Hoppe H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pred. No. 2.1e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 16.2;
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RESULT 95
ADKO1332/c
ID ADKO13
XX ADKO13
XX ADKO13
XX
DT 06-MAY
XX
DE Rat DN
XX
DE Rattus
XX
DE RATTUS
XX
DE RATTUS
XX
COS RATTUS
XX
PN DE1020
XX
PD 04-SEP
XX
PR 28-FEB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            comprise variable and non-variable regions. The capture oligonucleotides comprise variable and non-variable regions. The capture oligonucleotides comprise variable and non-variable regions. The complement of which is present at CC least once in each nucleic acid and a 3'-variable, discriminatory region cc binding of particular sorts of single stranded nucleic acids. The capture agents are particularly locked nucleic acids (LNA) and the anchor region comprises a sequence of 10-50, particularly 15-25, T residues. The capture comprises a sequence of 10-50, particularly 15-25, T residues. The comprises a sequence of 10-50, particularly 15-25, T residues. The comprises a sequence of 10-50, particularly 15-25, T residues. The comprises a sequence of 10-50, particularly 15-25, T residues. The comprises a sequence of 10-50, particularly 15-25, T residues. The comprises a sequence of 10-50, particularly 15-25, T residues. The comprises and especially in the form of a chip. Its surface to interaction with streptavidin. The matrix is of plastic, ceramic, glass, conducting properties and especially in the form of a chip. Its surface is particularly a layer of (bio)molecular filaments and binding of single stranded nucleic acids to the surface is (quasilocvalent, supramolecular, composited provides and especially in the form of a chip. Its surface composited is used (i) for analysis of patterns, especially in mucosal, conditives or supplements, especially minerals, trace elements, organic conditions inaging of the complete rapid, inexpensive and reproducible and composition of their derivatives, salts and conditives, salts and conditives capacidated and conditions in a cell, and capacidated in based on comparison of nucleic acid pools, since the method is the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This invention describes a novel method for sorting single-stranded nucleic acids by isolation and hybridisation of nucleic acid pools, then reading out, where the nucleic acids are selectively bound using capture agents that are (a) immobilised on the surface of a solid matrix and (b)
                                                                                                                                                                                                                                                                                                                                       ss; hybridisation; capture oligonucleotide; pattern; mucosal; hair root; blood; nerve; germ cell; food additive; food supplement.
                                                                                                                                                                                                                                                                                                                                                                                                             Rat DNA microarray capture oligonucleotide #52.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21 BP; 1 A; 1 C; 0 G; 19 T; 0 U; 0 Other;
                                                 (DEGS ) DEGUSSA BIOACTIVES GMBH.
                                                                                                28-FEB-2002; 2002DE-01008794.
                                                                                                                                                28-FEB-2002; 2002DE-01008794.
                                                                                                                                                                                               04-SEP-2003.
                                                                                                                                                                                                                                           DE10208794-A1
                                                                                                                                                                                                                                                                                           Rattus sp
                                                                                                                                                                                                                                                                                                                                                                                                                                                            06-MAY-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADK01332;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADK01332 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      capture probes used in the method of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1517 АТТАЛАЛАЛАЛАЛАГТАЛЛА 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21 AGTARAAAAAAAAAAAAAAAAAAA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
       Dieck HT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1.2%;
       Hoppe H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 16.2;
Pred. No. 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1; Length 21;
le+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
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RESULT 96
ADKO1288/c
ID ADKO12
XX ADKO12
XX ADKO12
XX O6-MAY
XX O8: hy
KW 88; hy
KW 88; hy
KW 8100d;
XX Rattus
XX Rattus
XX PN DE1020
XX PSEE
XX 28-FEE
PR 28-FEE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CC nucleic acids by isolation and hybridisation of nucleic acid pools, then comprise variable and non-variable regions. The capture of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonuclectides comprise variable anchor region, the complement of which is present at cleast once in each nucleic acid and a 3 variable, discriminatory region that comprises all possible combinations of up to 10 nucleotides to allow that comprises all possible combinations of up to 10 nucleotides to allow comprises a requence of 10-50, particularly locked mucleic acids (LNA) and the anchor region comprises a sequence of 10-50, particularly 15-25, T residues. The capture capture oligonucleotides are biotinylated and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, conducting properties and especially in the form of a chip. Its surface by a particularly a layer of (bio)molecular filaments and binding of single stranded nucleic acids to the surface is (quasi)covalent, supramolecular, cy physical, stimulated by an electrical field or through a molecular sieve. The method is used (i) for analysis of patterns, especially in mucosal, cativity of pharmaceuticals and/or nutritional compounds, e.g. food cativity of pharmaceuticals and/or nutritional compounds, e.g. food cativity of carboxylic or fatty acid) or their derivatives, sals and cardia based on comparison of nucleic acid pool. Since the capture probes used in the method of the complete acid pools, not individual capture probes used in the method of the hortinal acid pools acid represent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
  28-FEB-2002; 2002DE-01008794
                                        28-FEB-2002; 2002DE-01008794.
                                                                                                                       DE10208794-A1
                                                                                                                                                                                                                                                        Rat DNA microarray capture oligonucleotide #8.
                                                                                                                                                                                                                                                                                                  06-MAY-2004
                                                                                                                                                                                                                                                                                                                                       ADK01288;
                                                                                                                                                                                                                                                                                                                                                                             ADK01288 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          capture probes used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example; Page 5; 8pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                and constant regions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2003-714082/68
                                                                                                                                                                                                                   hybridisation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18;
                                                                                                                                                                                                 nerve;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATAAAAAAAAAAAAAAAAAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTAAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21 BP; 1 A; 0 C; 0 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                               germ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   describes a novel method for sorting single-stranded
                                                                                                                                                                                                 capture oligonucleotide; pattern; mucosal; hair root; cell; food additive; food supplement.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 16.2,
Pred. No. 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1; Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
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Rat DNA microarray capture oligonucleotide

hybridisation; capture oligonucleotide; pattern; mucosal; hair root; od; nerve; germ cell; food additive; food supplement.

ADK01300 st; ADK01300; 06-MAY-2004

(first

entry)

DE10208794-A1

음 성

1517 ATTAAAAAAAAAAAAAGTAAAA 1537

ACTARARARARARARARA 1

Query Match Best Local : Matches 1

Similarity

1.2%;

Score 16.2; DB 1; Pred. No. 2.1e+02; 0; Mismatches 3;

Length 21; Indels

0;

Gaps

0

ADK01300/c

standard; DNA; 21

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DEGUSSA BIOACTIVES GMBH.

XX

Recentamp D, Dieck HT, Hoppe H;

XX

XX

MP1; 2003-714082/68.

XX

Sorting single-stranded nucleic acid, useful for analyzing expression properties and screening active agents, uses capture agent with variable properties and screening active agents, uses capture agent with variable properties caids by isolation and hybridisation of nucleic acid policy for reading out, where the nucleic acids are selectively bound using capture agents that are (a) immobilised on the surface of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonucleotides have a 5'-invariable and non-variable regions. The capture oligonucleotides have a 5'-invariable and non-variable regions are selectively bound using capture agents that are particularly locked nucleic acids in the complement of which is present at cleast once in each nucleic acid and a 3'-variable, discriminatory region that comprises all possible combinations of up to 10 nucleotides to allow binding of particularly locked nucleic acids (LNA) and the anchor region comprises as sequence of 10-50, particularly 15-25. Tresidues The capture of computers and a particularly locked nucleic acids (LNA) and the anchor region comprises are particularly locked nucleic acids (LNA) and the anchor region comprises are particularly noted and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, residues The capture of computers and properties and especially in the form of a chip. Its surface is stranded nucleic acids to the surface is (quasilocovalent, supramolecular, physical, strainlated by an electrical field or through a molecular steve. The method is used (i) for analysis of patterns, especially in mucosal, capture probes used in the surface is form call and the representation of differences in pools of nucleic acid in a cell. It call the method is based on comparison of mucleic acid pool. Since the method is based on comparison of mucleic acid pool. Since the method of the invention.
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RESULT 98
ADF91593
ID ADF91
XX ADF91
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CC reading out, where the nucleic acids are selectively bound using capture capture (a) immobilised on the surface of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonucleotides capture as '-invariable anchor region, the complement of which is present at the as '-invariable anchor region, the complement of which is present at comprises all possible combinations of up to 10 nucleotides to allow binding of particular sorts of single stranded nucleic acids. The capture agents are particularly locked nucleic acids (LNA) and the anchor region comprises a sequence of 10-50, particularly 15-25, T residues. The capture agents are particularly locked nucleic acids (LNA) and the anchor region comprises a sequence of 10-50, particularly 15-25, T residues. The comprises a sequence of the comprises on a surface by interaction with streptavidin. The material and/or membrane, having semical composition with streptavidin. The material and/or membrane, having semical particularly a layer of (bio)molecular filaments and binding of single tranded nucleic acids to the surface is (quasi) covalent, supramolecular, charity of pharmaceuticals and/or nutritional compounds, e.g. food acids (amino, carboxylic or fatty acidly or their derivatives, salts and captures. The method provides rapid, inexpensive and reproducible capids (amino, carboxylic or fatty acidly or their derivatives, salts and captures. The method provides rapid, inexpensive and reproducible can detect very small differences in the nucleic acid soid. Since the method is based on comparison of nucleic acid pools, so the individual companies used the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
                                                                  ligand binding detection, protein target biological molecule; disulphide-containing protein fragment; ss; human; caspase-3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
                                                                                                                                                                       Human caspase-3 mutagenic oligonucleotide #10.
                                                                                                                                                                                                                                             26-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                          ADF91593 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 21 BP; 1 A; 0 C; 1 G; 19 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example; Page 5; 8pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Boekenkamp D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28-FEB-2002; 2002DE-01008794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (DEGS ) DEGUSSA BIOACTIVES GMBH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  probes used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2002DE-01008794.
                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   by isolation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                describes a novel method for sorting single-stranded by isolation and hybridisation of nucleic acid pools, then
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Dieck HT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1.2%;
85.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     German
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       норре н;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 16.2;
Pred. No. 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .1e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 21;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
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ADH17877
ID ADH17
XX ADH27
CT 11-M2
CX Prime
XX ADH20
CX 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to a method of detecting ligand binding to biological molecules comprising obtaining a set of coordinates of a three dimensional structure of a protein target biological molecule (TBM) having residues, selecting a candidate residue, determining a candidate reference value, and obtaining a database comprising sets of coordinates of disulphide-containing protein fragments, each fragment comprising a disulphide-bonded cysteine and a first adjacent residue. The method is useful for detecting ligand binding to biological molecules. The present sequence is used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Detection of ligand binding to biological molecules comprises obtaining database comprising coordinates of disulfide-containing protein fragments, each fragment comprising disulfide-bonded cysteine and first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-JUN-1998; 98US-00105372.
07-AUG-2001; 2001US-03107259.
17-OCT-2001; 2001US-00991547.
21-NOV-2001; 2001US-00990421.
10-APR-2002; 2002US-00121216.
                            08-APR-2002; 2002US-0370938P
                                                                                 08-APR-2003; 2003WO-US010831.
                                                                                                                                                                                                                                                                                                                                       PCR;
                                                                                                                                                                                                                                                                                                                                                                 allosteric site;
                                                                                                                                                                                                                                                                                                                                                                                                                        Primer (SEQ 11)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 21 BP; 5 A; 8 C; 3 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 6; SEQ ID NO 103; 40pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mcdowell RS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (MCDO/)
(FLAN/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          05-AUG-2002; 2002US-00214419.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16-OCT-2003.
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                                                                                                                                        23-OCT-2003
                                                                                                                                                                                               WO2003087051-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADH17877;
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                                                                                                                                                                                                                                                   sapiens
                                                                                                                                                                                                                                                                                                                                       primer; ss;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               940 GCCTCAGTCACTTTCTGTCCC 960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2004-041266/04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Flanagan
                                                                                                                                                                                                                                                                                                                                                                                                                     used to make human caspase-3 large subunit L168C mutant
                                                                                                                                                                                                                                                                                                                                 enzyme; caspase; cysteine aspartate-specific protease; human; caspase-3; Yama; CPP32 beta; large subunit.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ΣÞ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          85.7%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 16.2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2.1e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              of a three
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0,

SXCCCCCCCCXSXFFFXXXXIX

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Matches
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                site in a target having two binding sites comprising reacting a compount with a reactive group at or near one site and determining if this produces a change in the other site. The method of the invention may be used for identifying allosteric sites, for example in proteins such as enzymes, particularly caspases (cysteine aspartate-specific proteases). The current sequence is that of the PCR primer (SEQ ID 11) of the invention which was used to generate a human caspase-3 (Yama; CPP32 beta
The present invention relates to a device that has at least one surface that contacts tissue and/or liquids of the human or animal body and is a least partly coated with a substance that mediates binding of biological materials. The new feature is that this substance is an aptamer. The device is particularly an implant, e.g. a stent, vascular prosthesis, heart valve, joint etc., but may also be a component of an extracorpore.
                                                                                                                                                                                                                         Device coated with aptamers for binding specific biological materials, useful e.g. as stent or component of extracorporeal circulation system also new aptamers specific for endothelial precursor cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Device with substance to aid adhesion of biological material aptamer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Identifying an allosteric site in a target having two binding sites comprises reacting a compound with a reactive group at or near one and determining if this produces a change in the other site.
                                                                                                                                                                             Claim 15; SEQ
                                                                                                                                                                                                                                                                                                                                WPI; 2004-517421/49
                                                                                                                                                                                                                                                                                                                                                                            Schluesener H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10-DEC-2003; 2003WO-EP013989.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-JUL-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  aptamer;
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                                                                                                                                                                                                                                                                                                                                                                                                                             (UYTU-) UNIV TUEBINGEN EBERHARD-KARLS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              large subunit mutant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (SUNE-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                invention relates to a novel method for identifying an allosteric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            940 GCCTCAGTCACTTTCTGTCCC 960
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2002DE-01058924.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  implant; biological material adhesion;
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                                                                                                                                                                             ID NO 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ID NO 11; S1pp; English
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                                                                                                                                                                        31pp; German.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            G; 5 T; 0 U; 0
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Pred. No. 2.
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                                                                        dy and is at biological
                                                                                                                                                                                                                                                     system,
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Query Match

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DB 1; Length

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ID ABA932

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                                                   CC the amount of an RNA. The method comprises: (a) cDNAs obtained by CC transcribing respectively from at least two tissue RNAs are respectively conditions as a same restriction enzyme; (b) each different adaptor and a common adaptor are added to each of the cDNA fragments derived from the same or different tissues by the step (a); (c) the resultant adaptor added cDNAs are mixed together; (d) an adaptor primer having the common conditions are mixed together; (d) an adaptor primer having the common conditions are used conditions and adaptor and a gene-specific adaptor are used conditions are used conditions. The adaptor are used conditions are deaded cDNAs containing no region derived from complify said adaptor-added cDNAs containing no region derived from complyadenylic acid of the mRNA before the addition of the adaptor among conditions are measured between the tissues; (f) the RNA is detected from the measured result; (g) each different adaptor and a common adaptor care added to each of the genomic DNA fragments derived from a same or confidence to the different adaptor. The adaptor added genomic DNAs are mixed together; (i) the adaptor added genomic DNAs are amplified by using confidence-specific adaptor; and (j) the ratios of the amplified amounts of the genomic DNAs are measured between the individuals. The method is sequence represents an oligonucleotide which is used in the present confidence which is used in the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local
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   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Page 9; 9pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Comparative detection of the amounts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   30-MAY-2000; 2000JP-00160324
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     present invention describes a method for the comparative detection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2002-135950/18.
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      BP;
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   19 A; 1 C; 1
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Pred. No. 2.1e+02
   G; 1 T; 0 U;
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RESULT 103
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Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity Matches 18; Conserv
                                              Respiratory disease; pneumonia; bronchitis; heart disease; sarcoidosis; sinusitis; purulent otitis media; erythema nodosum; pharyngitis; vaccin neutralising epitope; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                        This invention relates to a human gene encoding a capsid protein zeta subunit (zeta-COP). The invention also relates to a zeta-COP protein sequence. The present sequence represents a PCR primer used to amplify the zeta-COP nucleotide sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel human capsid protein subunit coding sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2000-431993/38.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29-MAR-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CN1248624-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; capsid-protein; zeta-COP; PCR primer; 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAA59845
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAA59845 standard; DNA; 23 BP
                          Synthetic
                                                                                                                              13-SEP-1999
                                                                                                                                                         AAX96907;
                                                                                                                                                                                 AAX96907 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                   Sequence 23 BP; 6 A; 5 C; 10 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 1; Page 9; 21pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PCR primer specific
             Chlamydophila pneumoniae
                                                                                                   PCR primer used to amplify an ORF of Chlamydia pneumoniae.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (XINH-) XINHUANGPU FUDAN
                                                                                                                                                                                                                                                              1110 TCCATTTTTCCCCCCAGCTGG 1130
                                                                                                                                                                                                                                                 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   'n
Q
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATTAAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                 rccarcificccccccaccice 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Fu Q;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98CN-00119744.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98CN-00119744.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            for zeta-COP
                                                                                                                                                                                                                                                                                                            1.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 85.7%;
                                                                                                                                                                                  20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENE
                                                                                                                                                                                  ВP
                                                                                                                                                                                                                                                                                                 <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred. No. 2e+02;
                                                                                                                                                                                                                                                                                                            Score 16.2; DB 1; Length 23; Pred. No. 1.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ENG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
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                                                               pharyngitis; vaccine;
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                                                                                                                                                                                                                                                                                                 0
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  RESULT 104
AAQ20030/c
ID AAQ200
XX AAQ200
XX AAQ200
XX AAQ200
XX deoxyr
XX deoxyr
XX deoxyr
XX deoxyr
XX mazirid
XX Amman
XX Amman
XX Amman
XX Key
FT modifi
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAX91991-X97517 represent PCR primers used to amplify open reading frames and other nucleic acid sequences from the genome of Chlamydia pneumoniae (see AAX91990). C. pneumoniae causes respiratory disease such as pneumonia and bronchitis and is thought to be a contributing factor in heart disease, sarcoidosis, sinusitis, purulent otitis media, erythema nodosum or pharyngitis. The polypeptides encoded by the open reading frames of the C. pneumoniae genome (see AAX94584 AAX95879) can be used in immunogenic compositions as vaccines. Vectors containing C. pneumoniae nucleotides sequences can also be used as immunogenic compositions, especially where the vector directs the expression of a neutralising epitope of C. pneumoniae
                                                                                                                                                                                                                                   deoxyribonucleic acid; major groove; ethanoamino group; II-1; aziridinylcytosine; cross-linking group; o-xyloso linking group; human interleukin-1 beta; inverted polarity region; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21-NOV-1997;
04-NOV-1998;
                                                                                                                 modified_base
                                                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                                                                                                                01-APR-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 8 A; 2 C; 8 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Page 1862; Disclosure; 1912pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Genome sequence of Chlamydia pneumoniae.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1999-357842/30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Griffais R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            03-JUN-1999
               modified_base
                                                               misc_feature
                                                                                                                                                                   modified_base
                                                                                                                                                                                                                                                                                      Cross-linking oligomer 116 for targetting HUMIL1B.
                                                                                                                                                                                                                                                                                                                                        AAQ20030;
                                                                                                                                                                                                                                                                                                                                                                  AAQ20030 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (GEST ) GENSET.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO9927105-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                               1109 TTCCATTTTTCCCCCC 1124
                                                                                                                                                                                                                                                                                                                                                                                                                                17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                               TTCCATTTTTCCCCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             97FR-00014673
98US-0107078P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98WO-IB001890
 /*tag=
                                                          /*tag= b
/mod_base= OTHER
/note= "N-methyl-8-oxo-2'-deoxyadenine"
                                          /*tag=
/label=
                                                                                                                                                                                   Location/Qualifiers
                              /note= "see
                                                                                                                                 note=
                                                                                                                                          *tag= a
mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%;
                                                                                                                                  "N4N4-ethanocytosine"
                                         inverted_polarity_region
                                                                                                                                                                                                                                                                                                                                                                                                                                N
                                                                                                                                                                                                                                                                                                                                                                  ВP
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                              comments"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 16;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1; Lo. 2.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
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RESULT 105
AAQ30376/c
ID AAQ303
XX AAQ303
XX AAQ303
XX OAQ303
XX O
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This oligomer contains an inverted polarity region formed from an oxyloso dimer synthon. Residues 13 and 14 are linked via an oxyloso group (i.e. nucleotides that have xylose sugar linked via the oxylene ring). The sequence is designed to target the Human interleukin-1 beta gene beginning at nucleotide 7378 and will covalently cross-link to it via the
                   modified_base
                                                                                                                                                                                                                                                                                                    Oligomer HUM
                                                                                                                                                                                                                                                                                                                                               25-MAR-2003
07-DEC-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAQ30376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 19 BP; 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 4; Page 25; 42pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New sequence-specific non-photo-activated crosslinking agents -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matteucci MD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO9118997-A.
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                                                                                                               modified_base
                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                 AAQ30376;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-MAY-1990;
14-JAN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-MAY-1990;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12-DEC-1991
                                                                                                                                                                                                                               HPV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1514 TTAATTAAAAAAAAAAAAAA 1532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19
                                                                                                                                                                                                                                                       interleukin - 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TTAAATAAAAAAAAATAAG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                               etandard;
                                                                                                                                                                                                                               malignancy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                               beta 116 for forming triplex with IL-1 target duplex.
                                                                                                                                                                                                                                                                                                                                            (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Krawczyk S;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   90US-00529346.
91US-00640654.
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                                                                                                                                       Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /mod_base= OTHER
/note= "N-methyl-8-oxo-2'-deoxyadenine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                note=
                                             note= "OTHER= N4 N4 ethanocytosine"
                                                                       g
mod.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; 1 C; 0 G; 14 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     base= OTHER
"N-methyl-8-oxo-2'-deoxyadenine"
                                                                    _base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     base= OTHER
                                                                                                                                                                                                                          beta gene;
hepatitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "N-methyl-8-oxo-2'-deoxyadenine'
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                               herpes simplex; AIDS; modified; HIV; inflammation; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
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The synthetic oligomer is capable of forming a triplex at physiological CC pH with a purine rich target sequence by coupling into the major groove CC interleukin -1 beta gene beginning at nucleotide 7378 contg. a purine CC rich sequence concd. on one strand of the duplex. The oligomer is the human CC characterised by specific DNA duplex targets, e.g. HPV; HER; HIV, CC characterised by specific DNA duplex targets, e.g. HPV; HER; HIV, CC hepatitis B, herges, malignant tumours and inflammation. The triple CC subjecting the test specimen to harsh conditions. The oligomer contains CC an inverted polarity region formed from an o-xyloso dimer synthon. The CC subjecting the test specimen to harsh conditions. The oligomer contains CC an inverted polarity region formed from an o-xyloso dimer synthon. The CC subject linked via the o-xylene ring). Two nucleotides are coupled through CC axylene residue to form the dimer synthon. This additional modifications contains and residue to form the dimer synthon. This additional modifications contains and residue to oligomer stable to nuclease activity. The oligomer is able to inhibit gene expression, as verified by in vitro systems. See also CC AAQ25452-25501 and AAQ30226-448. (Updated on 25-MAR-2003 to correct PN CC field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23-NOV-1990;
18-JAN-1991;
08-APR-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   misc_feature
                                                                                                                                                                                                                                                                                             Claim 12;
                                                                                                                                                                                                                                                                                                                    New oligomers contg. modified bases -doublet in a DNA duplex, for treating herpes malignancy and inflammation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                        Froehler B,
                                                                                                                                                                                                                                                                                                                                                                                                                                    (GILE-) GILEAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                               27-SEP-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17-APR-1991;
17-APR-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25-NOV-1991;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .7-APR-1991;
 19
BP; 4
                                                                                                                                                                                                                                                                                                                                                                                                        Krawczyk
                                                                                                                                                                                                                                                                                          70; 77pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                     SCI INC
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91US-00686547.
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91US-00683420
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14. .19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /*tag= t
/label= inverted_polarity_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  note=
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C;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "OTHER=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "OTHER= N6 methyl-8-oxo 2' deoxyadenine"
                                                                                                                                                                                                                                                                                          English.
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                                                                                                                                                                                                                                                                                                                                                                                                        Matteucci MD,
  ດ
 14 T;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              methyl-8-oxo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   methyl-8-oxo
  o
U;
                                                                                                                                                                                                                                                                                                                                    which form a triplex with G-C and diagnosing HIV, hepatitis,
                                                                                                                                                                                                                                                                                                                                                                                                        Milligan J;
  0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ń
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            deoxyadenine"
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Query Match Best Local

l Similarity 17; Conserv

Conservative

0

1.1%;

Score 15.8; Pred. No. 2.

2.8e+02;

Indels

0

Gaps

0

DB 1; Length 19;

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RESULT 107
ADL79331/c
ID ADL793
XX ADL793
AC ADL793
XX DT 20-MAY
XX DE Human
XX DE Human
XX Bhort
KW RNA in
KW Short
KW Short
KW Short
KW Grug S
KW pharma
KW pharma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 106
AAQ75552/c
ID AAQ755
XX AAAQ75
XX AAQ755
XX AAQ75
XX AAQ755
XX AAQ75
XX AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
Matches 17; Conserv
  RNA interference; short interfering nucleic acid; siNA; miRNA; short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA; short hairpin RNA; shRNA, expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification; pharmacogenomics; gene function analysis; gene mapping; cancer; cytostatic; human; oncogene; epidermal growth factor receptor; EGFR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A method for the analysis of cDNA comprises (a) preparing an aggregate of double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AAQ75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                                                                                                                                                                                               20-MAY-2004
                                                                                                                                                                                                                                                                                   ADL79331 standard; RNA; 19 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Reverse transcription primer used in cDNA analysis technique.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              04-AUG-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 19 BP; 2 A; 0 C; 0 G; 17 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 5; llpp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Analysis of cDNA and gene expression - by digestion with restriction enzymes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JP06303997-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Analysis; gene expression; reverse transcription; primer; cDNA; aggregate; restriction enzyme; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAQ75552;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1995-018287/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16-APR-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (NITE ) NIPPON TELEGRAPH & TELEPHONE CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                1518 ТТАААААААААААСТААА 1536
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                                                                                                                                                        (EGFR2)
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                                                                                                                                                                                               (first entry)
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                                                                                                                                                     siNA lower strand,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 15.8; D
Pred. No. 2.8e
0; Mismatches
                                                                                                                                                        SEQ ID NO:496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2.8e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1; Length 19;
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    RESULT 108
ADL79082
ID ADL790
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The invention relates to short interfering nucleic acids (siNA) which CC downregulate expression of one or more human epidermal growth factor CC receptor (BGFR) genes (including HER1, HER2 HER3 and HER4) by RNA CC interference. The siNAs may or may not comprise ribonucleocides and may CC be double or single stranded. They further comprise sense and antisense CC regions, or alternatively are assembled from a sense oligonucleocide and CC an antisense oligonucleocide. Specifically, the siNAs include short CC interfering RNA (siRNA), double-stranded RNA, micro-RNA (miRNA) and short CC mitsipin RNA (siRNA). The siNAs can be unmodified or chemically modified, CC can contain deoxyribonucleotides, and can be chamically synthesised, CC expressed from a vector or enzymatically synthesised. The invention also crelates to kits for the in vitro or: in vivo delivery of siNA, conjugates and/or complexes of siNA; and vectors that express siNA. The siNAs are CC and/or complexes of siNA; and vectors that express siNA. The siNAs are CC organisms (e.g., by ex vivo gene therapy), or in grafts and transplants for the treatment of a variety of conditions. They may be used for treating a wide range of cancers such as breast and ovarian cancer. The siNAs are also useful for drug screening, diagnosis, therapeutic target collection gene function, and gene mapping (e.g., of single nucleotide CC studying gene function, and gene mapping (e.g., of single nucleotide CC polymorphisms). The present sequence represents the lower strand of a HER2 (EGFR2)-targeted double-stranded siNA.
                                                                                                                     Query Match
Best Local S
Matches 17
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06-JUN-2002; 2002US-0305782P.
06-JUN-2002; 2002US-0305782P.
03-JUL-2002; 2002US-0305782P.
03-JUC-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0408778P.
09-SEP-2002; 2002US-0409293P.
19-SEP-2002; 2002US-00251117.
21-OCT-2002; 2002US-00271494.
15-JAN-2003; 2003US-0440129P.
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11-MAR-2002;
29-MAY-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New short interfering nucleic acid, useful e.g. for treatment diagnosis of cancer, downregulates expression of the epidermal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-AUG-2003
                                                                                                                                                                                                                                              Sequence 19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    factor receptor gene.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20-FEB-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO2003070912-A2
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                                                       1246 TCTTTGTTTTGTTTTTAA 1264
                                                                                                                        17;
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19
                                                                                                                                                  Similarity
TTTTTGTTTTGTTTTTTTA 1
                                                                                                                                                                                                                                              BP;
                                                                                                                        Conservative
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2002US-0363124P.
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                                                                                                                                                                                                                                              16 A; 2 C; 0 G; 0 T; 1 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         erbB2; c-erb-B-2;
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                                                                                                                     Pred. No. 2.80
0; Mismatches
                                                                                                                                                  Score 15.8;
Pred. No. 2
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                                                                                                                           Indels
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                                                                                                                        Gaps
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ADL79082 standard; RNA; 19

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downregulate expression receptor (EGFR) genes (
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                                                                                                                                                                                                                           interference. The siNAs may or may not comprise ribonucleotides and may be double or single stranded. They further comprise sense and antisense
                                                                                                                                                                                                                                                          The invention relates to short interfering nucleic acids (siNA) which downregulate expression of one or more human epidermal growth factor
                                                                                                                                                                                                                                                                                           Example 3; SEQ ID NO 247; 171pp; English.
                                                                                                                                                                                                                                                                                                                              New short interfering nucleic acid, useful diagnosis of cancer, downregulates expressi
                                                                                                                                                                                                                                                                                                                                                                                    Mcswiggen
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03-JUL-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  pharmacogenomics; gene function analysis; gene mapping; cancer;
cytostatic; human; oncogene; epidermal growth factor receptor; !
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RNA interference;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human
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                                                                                                                                                                                                                                                                                                                                                                                                            (RIBO-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EGFR2;
                                                                                                                                                                                                                                                                                                                   receptor
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2003US-0440129P.
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2002US-0386782P.
2002US-0393924P.
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2002US-00251117.
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2002US-0408378P.
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                                                                                                                                                                                                                                                                                                                                                                                    Pavco
                                                                                                                                                                                                                                                genes (including HER1, HER2 HER3 and HER4) by RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       erbB2; c-erb-B-2; target sequence; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          short interfering nucleic acid; siNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               transcript target sequence/siNA upper
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                                                                                                                                                                                                                                                                                                                              downregulates expression
                                                                                                                                                                                                                                                                                                                                                                                                            INC
                                                                                                                                                                                                                                                                                                                                                                                    Beigelman
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                                                                                                                                                                                                                                                                                                                                                                                    Fosnaugh K,
                                                                                                                                                                                                                                                                                                                                        e.g.
                                                                                                                                                                                                                                                                                                                             of the epidermal growth
                                                                                                                                                                                                                                                                                                                                        for treatment
                                                                                                                                                                                                                                                                                                                                                                                      Jamison
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               micro-RNA; miRNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 receptor; EGFR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                strand,
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CC regions, or alternatively are assembled from a sense oligonucleotide and can antisense oligonucleotide. Specifically, the siNAs include short content regions (e.g., and can be considered and content regions) and short content regions and content regions are assembled from a sense oligonucleotide and content regions are content regions. The siNAs can be unmodified or chemically modified, content regions are content region and can be chemically modified, content regions are content region and can be chemically synthesised, content regions are content region and vector or enzymatically synthesised. The invention also content regions are considered for in vivo delivery of siNA, conjugates and/or complexes of siNA, and vectors that express siNA. The siNAs are considered to modulate expression of EGFR genes in cells, tissue explants or conform regions (e.g., by ex vivo gene therapy), or in grafts and transplants or corganisms (e.g., by ex vivo gene therapy), or in grafts and transplants concern the treatment of a variety of conditions. They may be used for creating a wide range of cancers such as breast and ovarian cancer. The concern are also useful for drug screening, diagnosis, therapeutic target contentification and validation, genetic engineering, pharmacogenomics, studying gene function, and gene mapping (e.g., of single nucleotide content regresent sequence represents the upper strand of a character of the content regions of the present regions of the present regions of the present sequence represents the upper strand of a character regions of the present sequence represents the upper strand of a character regions of the present sequence represents the upper strand of a character regions of the present sequence represents the upper strand of a character regions of the present sequence represents the upper strand of a character regions of the present sequence represents the upper strand of a character regions of the present sequence represents the upper strand of a character regions of the present sequence r transcript target sequence

Sequence 19 8P; Ą 0 ü N <u>و</u> 0 7 16 Ç; 0 Other

Query Match Best Local

Similarity

1.1%;

Score Pred.

15.8; DB 1; No. 2.7e+02;

DB 1;

Length

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ARBSULT 109
AAQ68869
AC AAQ688
AC AA
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Best Local S
Matches
                                                   molecules, the hooked or semi-hooked oligonucleotides are more resistant to exonucleases and less toxic because they are less likely to hybridise with partially complementary non-target sequences. (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to correct PA field.)
                                                                                                                                                            (e.g. atopical dermatitis, psoriasis, melanoma, T cell lymphoma etc.) viral infections (e.g. herpes simplex, papilloma, hepatitis or HIV); or cancer (when directed against an oncogene), due to their ability to hybridise with target nucleic acid. They can be used ex vivo, e.g., to treat bone marrow grafts. They can also be used for diagnosis or in cosmetics e.g. to block mRNA coding process such as collagenase or elastase. Compared with linear antisense
                                                                                                                                                                                                                                                                                                                                                      The new hooked or semi-hooked oligonucleotides (see AAQ68869-71, AAQ68873, AAQ68875, AAQ68877, AAQ68879 and AAQ68880) are useful as therapeutic antisense molecules for treating dermatological disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New oligo:nucleotide(s) self paired at one or both ends - have improved resistance to nuclease(s) and reduced toxicity, useful as anti:sense molecules for treating dermatological disorders, virus infections,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Oligonucleotide; antisense; self paired; nuclease resistant; dermatological disorders; viral infection; cancer; atopical opsoriasis; melanoma; T cell lymphoma; herpes simplex; papillo hepatitis; HIV; human immunodeficiency virus; oncogene; colli
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Analysis of cDNA and gene expression - by digestion with restriction enzymes.
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A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AAQ75547-Q75798)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI;
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                                                                                                                                                                                                                                                                                                              (NITE ) NIPPON TELEGRAPH & TELEPHONE CORP
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                                                                                                             Page 5; 11pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                            93JP-00112515.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              enzyme;
                                                                                                                Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 15.8; DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              transcription;
                                                                                                                                                                                              by amplification
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                                                                                                                                                                                                      of mRNA followed
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AATO4915-T04922 are oligonucleotide primers and probes used for the CC amplification and sequencing of mammalian stem cell factor (SCF). Non-cC naturally occurring SCF and C-terminally truncated polypeptides, having CC amino acid sequences sufficiently duplicative of naturally occurring SCF, ethnulate growth of primitive progenitors such as haematopoietic progenitor cells, neural stem cells and primordial germ stem cells. The cCC progenitor cells, neural stem cells and primordial germ stem cells. The cCC trombocytopenia, for enhancing engraftment of bone marrow during CC transplantation or for bone marrow recovery after chemotherapy or ccl used for treating neoplasia, nerve damage, infertility, intestinal CC damage or myeloproliferative disorders. Antibodies may be raised against the peptides for use in detection or neutralisation of SCF in serum. SCF may be useful for the treatment of AIDS and severe combined communodeficiency (SCID) states alone or in combination with other factors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16-OCT-1989;
11-JUN-1990;
24-AUG-1990;
28-SEP-1990;
01-OCT-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                                                                                                                                                                                                                                                                                                                       New stem cell factor polypeptide(s) - for stimulating the growth of primitive progenitor cells, esp. for treating disorders involving blood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EP676470-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Stem cell factor; progenitor; haematopoiesis; SCF; anaemia; thrombocytopenia; leucopenia; AIDS; immunodeficiency; bone transplant; neoplasia; myelosuppression; bone marrow; ss.
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15-MAY-1996
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                                                                                                                                                                                                                                                                       3; Fig 12C; 127pp; English
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(first entry)
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90US-00537198.
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90WO-US005548.
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Pred. No. 2.7e+02;
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1519 TAAAAAAAAAAAGTAAAA 1537

Matches Query Match Best Local

17;

Conservative

Similarity

1.1%;

Score 15.8; DB 1; Pred. No. 2.7e+02; 0; Mismatches 2

DB 1;

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                                            The present invention provides a method for sulphurising phosphorus-containing compounds. It comprises contacting the phosphorus-containing compound which a 1,2,4-dithiazolidine-2,5-dione compound or a 3-substituted-1,2,4-dithiazolin-5-one compound. The method is especially useful for incorporation of phosphorothioate linkages into biologically important molecules such as DNA, RNA and phosphopeptides. Molecules containing such linkages are useful e.g. as antisense compounds for inhibiting gene expression, as reagents for studying DNA-protein or RNA-protein interactions, or as catalytic RNA. The present sequence represents an oligonucleotide with phosphorothioate linkages prepared by the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sulphurisation of phosphorus-containing oligo:nucleotide(s) - by contacting the containing five-membered heterocycle.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       such
  Sequence 20
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antisense; EDITH;
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AAV07752 standard; DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                      Example 7; Page 30; 51pp; English
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  BP; 1 A; 0 C; 0 G; 0 T; 19 U; 0 Other;
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LOUISIANA STATE & AGRIC.
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Pred. No. 2.7e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            compounds, e.g. compound with a dissulphide-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            This sequence represents an unmethylated CpG dinucleotide, and can be CC used in the method of the invention. The method is for treating a subject CC having, or at risk of having an acute decrement in air flow, comprising CC administering a nucleic acid sequence containing at least one CC unmethylated CpG. The nucleic acids containing at least one CC dinucleotide affect an immune response in a subject by activating natural CC killer cells (NK) or redirecting a subject is immune response from a Th2 CC to a Th1 response by inducing monocytic and other cells to produce Th1 CC cytokines. They can be used to treat pulmonary disorders having an CC immunologic component, such as asthma or environmentally induced airway CC disease. They can also be used to treat disease associated with Gram-CC positive bacterial infections or endotoxaemia including bacterial CC meningitis, neonatal sepsis, cystic fibrosis, inflammatory bowel disease CC and liver cirrhosis, Gram-negative pneumonia, Gram-negative abdominal CC abscess, haemorrhagic shock, disseminated intravascular coagulation, or CC an inflammatory response to lipopolysaccharide
                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches 17
   AAV74243 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 35; Page 27; 65pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Use of nucleic acids containing an unmethylated CpG - f subject having or at risk of having an acute decrement inhibiting an inflammatory response.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1998-480941/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Schwartz DA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       03-SEP-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                natural killer cell activation; NK cell; Th2 response; neonatal sep pulmonary disorder; asthma; environmentally induced airway disease; bacterial infection; endotoxaemia; therapy; cystic fibrosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Unmethylated CpG dinucleotide; immune response; bacterial meningitis; natural killer cell activation; NK cell; Th2 response; neonatal sepsi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Unmethylated CpG dinucleotide 2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-NOV-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAV47686 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 W09837919-A1
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                                                                                                                                                                                                                         426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20
                                                                                                                                                                                                                                                                                       17; Conser
                                                                                                                                                              -
                                                                                                                                                                                                                         GGCGGCTGCGGCGCCGGCG 444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGCGGCGGCGGCGGCG 19
                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Krieg AM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            bowel disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IOWA RES FOUND.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               97US-0039405P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            98WO-US003678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DNA;
                                                                                                                                                                                                                                                                                                                1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20
                                                                                                                                                                                                                                                                                       <u>,,</u>
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                                                                                                                                                                                                                                                                                                                Score 15.8; DB 1;
Pred. No. 2.7e+02;
                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                 DB 1; Length 20;
                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           for treating
t in air flow
                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                       Gaps
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RESULT 117
AAZ05061
ID AAZ050
XX
AC AAZ050
XX
DT 07-OCT
XX
DE PCR pr
XX

AAZ05061 standard; DNA; 20

쁌

07-OCT-1999 AAZ05061;

(first entry)

PCR primer used to amplify an

ORF of Chlamydia trachomatis

S

426 GGCGGCTGCGGCGCCGGCG 444

Matches Query Match

Local

l Similarity

Conservative

0;

Pred. No. 2.70 0; Mismatches Score 15.8;

Indels

0

Gaps

0

No. 2.7e+02

DB 1; Length

89.5%;

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 $\vdash$ 

GGCGGCGGCGGCGGCG 19

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AAV74237-V74253 are oligodeoxynucleotide (ODN) primers used to describe a method for enhancing the immunostimulatory effect of an antigen encoded by nucleic acid contained in a nucleic acid construct. The method involves determining the CpG-N and CpG-S motifs present in the construct, removing neutralising CpG (CpG-N) motifs and optionally inserting a nucleic acid construct having enhanced immunostimulatory CpG (CpG-S) motifs in the construct, thereby producing a nucleic acid construct having enhanced immunostimulatory efficacy. The method can be used for immunisation against viral antigens, e.g. from hepatitis B virus (HBV), bacterial antigens or an antigen derived from a parasite. They can also be used for expression of a therapeutic polypeptide, e.g. growth factors, toxins, tumour suppressors, cytokines, apoptotic proteins, interferons, hormones, clotting factors, ligands and receptors. (Updated on 20-MAR-2003 to correct PA field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Use of neutralising CpG and stimulating CpG motifs in DNA vectors enhancing the immunostimulatory effect of an antigen or enhancing expression of a therapeutic polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CpG-N motif; immunostimulation; antigen; CpG-S motif; immunisation; ODN; viral antigen; bacterial antigen; parasite; therapeutic; growth factor; toxin; tumour suppressor; cytokine; apoptotic protein; interferon; hormone; clotting factor; ligand; receptor; oligodeoxynucleotide; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-MAR-2003
15-MAR-1999
Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 1; Page 64; 109pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1999-059712/05.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Davis HL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (OTTA-) OTTAWA CIVIC HOSPITAL LOEB RES INST.
(IOWA ) UNIV IOWA RES FOUND.
(QIAG-) QIAGEN GMBH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-MAY-1997;
20-MAY-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26-NOV-1998.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Krieg AM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   97US-0047209P.
97US-0047233P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Schorr J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          £
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Best Local
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17-DEC-1997;
04-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PCR primers AAZ01426-Z06209 were used to amplify open reading frames (ORFs) of the genome of Chlamydia trachomatis (see AAZ01425). These ORFs encode polypeptides (see AAY16754-Y37949) which can be used as vaccines against Chlamydia trachomatis. Antisense and ribozyme sequences can also be used to control growth of the microorganism. Chlamydia trachomatis is responsible for a large number of diseases, e.g. eye diseases such as conventional trachoma, nonendemic trachoma, paratrachoma, and inclusion conjunctivitis; genital diseases such as nongonococcal uretritis, penitymitis, cervicitis, salpingitis, perihepatitis, bartholinitis; pneumopathy in breast feeding infants; and venereal lymphogranulomatosis.
                                                                                                  Vaccine; eye disease; conventional trachoma; nonendemic trachoma; paratrachoma; inclusion conjunctivitis; genital disease; perihepatitis; nongonococcal uretritis; epidymitis; cervicitis; salpingitis; PCR prime bartholinitis; pneumopathy; venereal lymphogranulomatosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Vaccine; eye disease; conventional trachoma; nonendemic trachoma; paratrachoma; inclusion conjunctivitis; genital disease; perihepatitis; nongonococcal uretricis; epidymitis; cervicitis; salpingitis; PCR primer; bartholinitis; pneumopathy; venereal lymphogranulomatosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20 BP; 6 A; 7 C; 3 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Genome sequence of Chlamydia trachomatis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1999-371125/31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Griffais R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Synthetic.
Chlamydia trachomatis.
   10-JUN-1999
                              W09928475-A2
                                                         Synthetic.
Chlamydia trachomatis.
                                                                                                                                                                          PCR primer used to amplify an ORF of Chlamydia trachomatis.
                                                                                                                                                                                                                                   AAZ02676;
                                                                                                                                                                                                                                                              AAZ02676
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                                                                                                                                                                                                                                                                                                                                                                  1619
                                                                                                                                                                                                                                                                                                                                                                                               17;
                                                                                                                                                                                                                                                                                                                                     μ
                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                standard; DNA;
                                                                                                                                                                                                                                                                                                                                       GGATACCACAAATTCTCCC 19
                                                                                                                                                                                                                                                                                                                                                                 GGATAGCACAAATCCTCCC 1637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Page 1739; 1755pp; English.
                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                       (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        97FR-00015041.
97FR-00016034.
98US-0107077P.
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                                                                                                                                                                                                                                                                                                                                                                                                            1.1%;
                                                                                                                                                                                                       entry)
                                                                                                                                                                                                                                                                  20
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                                                                                                                                                                                                                                                                                                                                                                                                            Score 15.8;
Pred. No. 2.
                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                            2.7e+02
                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1; Length
                                                                                                                                                                                                                                                                                                                                                                                               0;
                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                 primer;
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Best Local
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                       11-JUN-1990;
24-AUG-1990;
28-SEP-1990;
01-OCT-1990;
04-OCT-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-NOV-1997;
17-DEC-1997;
04-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PCR primers AAZ01426-Z06209 were used to amplify open reading frames (ORFs) of the genome of Chlamydia trachomatis (see AAZ01425). These ORFs encode polypeptides (see AAY36754-Y37949) which can be used as vaccines against Chlamydia trachomatis. Antisense and ribozyme sequences can also be used to control growth of the microorganism. Chlamydia trachomatis is responsible for a large number of diseases, e.g. eye diseases such as conventional trachoma, nonendemic trachoma, paratrachoma, and inclusion
                                                                                                                                                                                                                  primitive progenitor cell; haematopoietic disorder; syngeneic; allogeneic; autologous bone marrow transplant; gene therapy; transfection; haematopoietic stem cell; acute blood loss; neop
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                conjunctivitis; genital diseases such as nongonococcal uretritis, epidymitis, cervicitis, salpingitis, perihepatitis, bartholinitis; pneumopathy in breast feeding infants; and venereal lymphogranulomatosis. The polypeptides of the invention may be of use in treating these
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Genome sequence of Chlamydia trachomatis
                                                                                   16-OCT-1989;
                                                                                                           04-OCT-1990;
                                                                                                                                   12-APR-2000
                                                                                                                                                           EP992579-A1
                                                                                                                                                                                Synthetic
                                                                                                                                                                                                                                                                               Stem cell
                                                                                                                                                                                                                                                                                                       27-JUL-2000
                                                                                                                                                                                                                                                                                                                               AAA13753;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Page 1544; 1755pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Griffais
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (GEST ) GENSET
                                                                                                                                                                                                                                                                                                                                                                                                                                       1619 GGATAGCACAAATCCTCCC 1637
                                                                                                                                                                                                                                                      cell factor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1999-371125/31.
                                                                                                                                                                                                                                                                                                                                                                                                                20 GGATACCACAAATTCTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                17;
                                                                                                                                                                                                         88
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     70
                                                                                                                                                                                                                                                                                                                                                       standard; DNA;
                                                                                                                                                                                                                                                                              factor universal oligonucleotide 220-7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                       (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   97FR-00015041.
97FR-00016034.
98US-0107077P.
                                    90US-00573616.
90WO-US005548.
90US-00589701.
                                                                        89US-00422383.
90US-00537198.
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                          90EP-00310899
                                                                                                           99EP-00122861
                                                                                                                                                                                                                                                      SCF; haematopoietic progenitor cell; blood forming;
                                                                                                                                                                                                                                                                                                       entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3 C; 7
                                                                                                                                                                                                                                                                                                                                                       20
                                                                                                                                                                                                                                                                                                                                                       ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              G; 6 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 15.8;
Pred. No. 2
                                                                                                                                                                                                                                                                                                                                                                                                                N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                <u>ب</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20;
                                                                                                                                                                                                                      neoplasia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
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(AMGE-) AMGEN INC.

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RESULT 120
AAF991
XX AAF991
XX AAF991
XX AAF991
XX Vaccin
DT 12-JUN
XX Vaccin
KW immunc
KW infect
XX Synthe
XX WO2001
XX WO2001
XX WO2001
XX WO2001
XX WO2001
XX WO2001
XX AGREE 25-SEP
XX 25-SEP
PR 23-AUG
PA (COLE-
XX (COLE-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A method has been developed of making haematopoietic cells suitable for cadministration to a subject. The method comprises: (a) obtaining CC haematopoietic progenitor cells from a donor; and (b) expanding the cells by adding to the cells a haematopoietically effective dose of a CC polypeptide product having at least part of the primary structural CC confirmation and one or more of the biological properties of naturally CC occurring stem cell factor (SCF). The method is useful for stimulating CC primitive progenitor cells including early haematopoietic progenitor CC cells which are capable of maturing to erythroid, megakaryocyte, CC granulocyte, lymphocyte and macrophage cells. SCF results in absolute increases in haematopoietic cells of both myeloid and lymphoid lineages. SCF is useful for treating haematopoietic disorders. The method is useful for expanding early haematopoietic progenitors in syngeneic, allogeneic or autologous bone marrow transplant. SCF is useful for enhancing the efficiency of gene therapy based on transfecting haematopoietic stem CC cells. SCF is also useful for combating the myelosuppressive effects of anti-HIV drugs such as AZT and for enhancing haematopoietic recovery CC after acute blood loss and as a boost to the immune system for fighting neoplasia (cancer). The present sequence represents a universal coligonacleotide which is used in an example from the present invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
Matches 17; Conserv
                                                                         25-SEP-1999;
27-SEP-1999;
23-AUG-2000;
                                                                                                                                                                                                                                                                                                Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic; immunostimulatory; tumour; viral infection; bacterial infection; fungal infection; parasitic infection; cancer; asthma; infectious disease; allergy; immune deficiency; phosphorothioate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Production of hematopoietic cells suitable for administration to a subject using progenitor cells and expanding the cells using stem or
                     (IOWA )
                                                                                                                                                                                                                              WO200122972-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                      12-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAF99116 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20 BP; 1 A; 0 C; 1 G; 18 T; 0 U;
                                                                                                                                                     25-SEP-2000;
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                     UNIV IOWA RES FOUND.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                           99US-0156113P.
99US-0156135P.
2000US-0227436P.
                                                                                                                                                     2000WO-US026383.
                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                   nucleic acid #232.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bosselmann RA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 15.8;
Pred. No. 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0 Other;
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RESULT 121
AAH41332/c
ID AAH4133
XX AAH413
AC 
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Best Local
                                                                                                                                                                                                                             25-NOV-1992;
21-DEC-1993;
24-MAY-1995;
12-JAN-1998;
                                                                                                                                                                                                                                                                                                                               11-JUN-1990;
24-AUG-1990;
01-OCT-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         response. The method comprises administering an immunostimulatory nucle acid to a non-rodent subject in sufficient quantity to stimulate an immune response. The present sequence is one such immunostimulatory nucleic acid. The immunostimulatory nucleic acid. The immunostimulatory nucleic acids can be pyrimidine ric (py-rich) or thymidine (T) rich. The method is used to vaccinate subject against tumour antigens, viral antigens (e.g. herpesviridae, retrovirid and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma, haemophilus, campylobacter, clostridium, Escherichia coli and/or staphylococcus), fungal antigens and/or parasitic antigens. The method also useful for preventing cancer, asthma, infectious disease, allergy immune deficiency. The present sequence can also be used to redirect a Th2 to a Th1 immune response and to activate immune cells. Note: the present sequence may have a phosphorothioate backbone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Stem cell factor; SCF; stem cell factor receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Vaccinating against tumors, infectious diseases, allergies using immunostimulatory Py-rich and TG nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 101;
Enhancing efficiency of transfer of mammalian cell in vitro, involves ex
                                                                              WPI; 2001-366062/38
                                                                                                                                                                                                                                                                                                                                                                                                        16-OCT-1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            31-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           27-MAR-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US6207454-B1
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                                                                                                                                                                           (AMGE-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             therapy;
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                                                                                                                            Bosselman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Schetter C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              invention relates to a method for stimulating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                INC.
                                                                                                                                                                                                                             92US-00982255.
93US-00172329.
95US-00449653.
98US-00005893.
                                                                                                                                                                                                                                                                                                                               89US-00422383.
90US-00537198.
90US-00573616.
90US-00589701.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            98US-00224681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             primer; mutagenesis; probe;
                                                                                                                            RA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            89.5%;
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                                                                                                                          Sugge
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 15.8; DB 1;
Pred. No. 2.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
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  of polynucleotide into a target exposing cell that expresses a
                                                                                                                               Martin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       blood cell disorder;
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RESULT 122
AAS04112/c
ID AAS041
XX AAS041
XX AAS041
XX Puman
XX Human;
XW Human;
XW Human;
XW Homo s
XX PCR px
XX PC
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                          24-AUG-1990;
01-OCT-1990;
21-DEC-1993;
                                                                                                                                                                                                                                                                                                                       (ZSEB/)
(BOSS/)
(SUGG/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention describes a method for enhancing (E) the efficiency of transfer of a polynucleotide (I) into a target mammalian cell (II) in vitro, comprising exposing (II) that expresses a stem cell factor (SCF) receptor to a biologically active SCF, its analogue or fragment, which induces cell proliferation, and introducing (I) to (II) in vitro. Exposure of SCF to (II) results in increased uptake of (I) into the cell. The method is useful for enhancing the efficiency of the transfer of a polynucleotide into a target mammalian cell in vitro. The method is useful in gene therapy techniques. AAH41301 to AAH41364 and AAB98351 to AAB98390 represent sequences used in the exemplification of the present
                                                                                         Novel nucleic acids encoding stem cell factor useful for treating disorders involving blood cells, e.g. leukemia, splenomegaly, Hoddisease, Kala azar, anemia and septicemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; stem cell factor; SCF; early haematopoietic progenitor cell; blood disorder; leukaemia; Hodgkin's disease; lymphoma; splenomegalanaemia; Kala azar; septicemia; malaria; hypopigmentation disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
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                                                   Example 3; Fig 12C; 209pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16-OCT-1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            07-JUN-1995;
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                                                                                                                                                                                                                                                                                                     (MART/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         primer; 88.
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                                                                                                                                                                                                       2001-298941/31
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17; Conserv
                                                                                                                                                                                                                                                                                                                       ZSEBO K M.
BOSSELMAN R
SUGGS S V.
                                                                                                                                                                                                                                                                                                     MARTIN F H.
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                                                                                                                                                                                                                                                  Bosselman
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90US-00573616.
90US-00589701.
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present sequence for universal PCR primer 220-7

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The present invention provides the protein and coding sequences of mammalian stem cell factors (SCFs). These are capable of stimulating the growth of early haematopoietic progenitor cells, neural stem cells and primordial germ stem cells. The sequences are useful in the treatment of the sequences are useful in the treatment of the sequences.

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                                                                                                              Novel isolated non-human mammalian stem cell factor polypeptide stimulating growth of early hematopoietic progenitor cells, use treating aplastic anemia, lymphoma, Letterer-Siwe disease, Kala
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; rat; mammal; stem cell factor; SCF; cell growth stimulation; gene therapy; haematopoietic disorder; aplastic anaemia; leukaemia; neurological damage; intestinal damage; infertility; AIDS; SCID;
                                                                    Example
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24-AUG-1990;
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SCF (stem cell factor) cDNA sequence. The present invention relates to
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90US-00573616.
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Pred. No. 2.7e+(
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RESULT 124
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Best Local
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11-JUN-1990;
24-AUG-1990;
01-OCT-1990;
10-APR-1991;
                            The present sequence for universal PCR primer 220-7 is 1 of 8 universal oligonucleotides (AAH23888 AAH23895) used in the isolation of the human SCF (stem cell factor) cDNA sequence. The present invention relates to novel stem cell factors (AAB73561-AAB73568, AAB73571-AAB73576) and the polynucleotides encoding them. SCF stimulate primitive progenitor cells including early haematopoietic progenitor cells. The invention also describes SCF peptides (AAB7356-AAB73597) and the oligonucleotides (AAB73589-AAB73597) and the oligonucleotides (AAB73589-AAB73597) are the oligonucleotides (AAB73589-AAB73597) and the oligonucleotides (AAB73589-AAB73597) are the oligonucleotides (AAB73589-AAB73597) and the oligonucleotides (AAB73589-AAB73597) are the oligonucleotides of the polynucleotide encoding SCF is useful for producing SCF and useful in gene therapy. It is useful for treating disorders involving blood cells such as myelofibrosis, metastatic carcinoma, acute leukaemia, multiple myeloma, Hodgkin's disease, lymphoma, Gaucher's disease, anaemia, congestive splenomegaly, Kala azar, spreciosis, military tuberculosis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New stem cell factor polypeptides and their analogs which stimulate growth of early hematopoietic progenitors, useful for treating aplamenemia, carcinoma, multiple myeloma, vitiligo, kala azar, Hodgkin's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     leukaemias, haematopoietic disorders, aplastic anaemia, paroxysmal nocturnal haemoglobinuria, malaria, pigmentation disorders, neurologica and intestinal damage, infertility, AIDS and severe combined immunodeficiency (SCID). The present sequence is primer used to amplify
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; stem cell factor; SCF; early haematopoietic progenitor cell; blood disorder; leukaemia; Hodgkin's disease; lymphoma; splenomegaly; anaemia; Kala azar; septicaemia; malaria; hypopigmentation disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  07-AUG-2001
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Pred. No. 2.7e+02;
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                       The sequences given in AAH43686-93 are primers which were used in the CC amplification and isolation of the full length cDNA encoding the human CC AMP-activated protein kinase gamma 3 subunit (PRKAG3). Detecting the CC presence of the PRKAG3 DNA, or a variant, is useful in determining a risk CC estimate of a metabolic disease, such as diabetes or obesity, in a CC subject. The variation may occur in exons 3, 4 or 10. In exon 3 variation CC may be a substitution of a G for a C at nucleotide 320, resulting in the CC amino acid substitution P71A; in exon 4 variation may be a substitution of a T for a C at nucleotide 550; and in exon 10 variation may be a CC substitution of a T for a C at nucleotide 1037, resulting in the amino CC acid substitution R340W. There may also be nucleotide variation in intron CC acid substitution R340W. There may also be nucleotide variation in intron CC acid substitution position 1 of the open reading frame. This primer sequence binds in intron 4 cc binds in intron 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
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                                                                                                                                                                                                                                                                            New variants of human AMP-activated protein kinase gamma3 subunit associated with a metabolic disease e.g. diabetes or obesity and metaboric determining a risk estimate of diseases in subject by detecting
                                                                                                                                                                                                                                                                                                                                      WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                B12 and folic acid deficiency, pyridoxine deficiency, hypopigmentation disorders such as piebaldism and vit
Sequence
                                                                                                                                                                                                                                      Example 1;
                                                                                                                                                                                                                                                                                                                                                                Andersson L,
                                                                                                                                                                                                                                                                                                                                                                                                                     07-APR-2000; 2000US-0195665P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
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                                                                                                                                                                                                                                     Page 14;
 BP;
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A;
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C; 8
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                                                                                                                                                                                                                                      English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 15.8;
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G; 3 T; 0
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Ċ.
 0 Other;
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vitiligo
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AGTGGCGGCTGCAGCACCG 19

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RESULT 126
AAS04213/c
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                                                                                                                                                                                                                                                                                                             The present sequence for universal PCR primer 220-7 is 1 of 8 universal CC oligonucleotides (AAS04211-AAS04218) used in the isolation of the human CS CF (stem cell factor) cDNA sequence. The present invention relates to CC novel stem cell factors (AAU02761-AAU02767, AAU02770-AAU02775, AAU02797) and the polynucleotides encoding them. SCF stimulate primitive progenitor CC cells including early haematopoietic progenitor cells. The invention also describes SCF peptides (AAU02777-AAU02797) and the oligonucleotides (CC (AAS04182-AAS04210) used in the isolation of human and rat SCF sequences. CC (CT polynucleotide encoding SCF is useful for producing SCF and useful in CC gene therapy. It is useful for treating disorders involving blood cells such as myelofibrosis, metastatic carcinoma, acute leukaemia, multiple CC congestive splenomegaly, Kala azar, sarcoidosis, military tuberculosis, CC congestive splenomegaly, Kala azar, sarcoidosis, military tuberculosis, CC disseminated fungus disease, Fulminating septicemia, milatia, vitamin B12 and folic acid deficiency, pyridoxine deficiency, and hypopigmentation CC dissorders such as piebaldism and vitiligo
                                                                                                                             Query Match
Best Local S
Matches 17
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11-JUN-1990;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Isolated DNA sequence, encoding polypeptide product useful for stimulating growth of early hematopoietic progenitor cells.
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01-OCT-1990;
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                                                                                                                                                                                                                                                              Sequence
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   19
                                                                                                                                1 Similarity
17; Conserv
TAAAAAAAAAAAAAAA 1
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90US-00537198.
90US-00573616.
90US-00589701.
92US-00982255.
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                                                                                                                                                                                                                                                          A; 0 C; 1 G; 18 T; 0 U; 0 Other;
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                                                                                                                          Score 15.8; DB 1; Length 20;
Pred. No. 2.7e+02;
0; Mismatches 2; Indels
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RESULT 127

RESULT 128 ABS77759 ID ABS777 XX

ABS77759

standard; DNA;

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AAS10448/c
IID AAS104
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                                           S
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                                                                                                                                            Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; stem cell factor; SCF; haematopoietic progenitor cell; blood disorder; Hodgkin's disease; vitamin B12; folic acid deficiency; hypopigmentation disorder; viral disorder; AIDS; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Increasing the number of early hematopoietic progenitor cells in the peripheral blood useful for the treatment of blood disorders including Hodgkin's disease comprises the administration of human stem cell factor.
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(BOSS/)
(SUGG/)
(MART/)
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25-NOV-1992
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                                                                                                                                                                                                                                   Sequence 20 BP; 1 A; 0 C; 1 G; 18 T; 0 U;
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24-AUG-1990;
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SUGGS S V.
                                                                                                                                               Similarity
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TAAAAAAAAAAAAAA 1
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90US-00537198.
90US-00573616.
90US-00589701.
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92US-00982255.
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                                                                                                                Score 15.8; DB 1;
Pred. No. 2.7e+02;
0; Mismatches 2;
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                                                                                                                                                                        Length 20;
                                                                                                                      Indels
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Best Local Similarity
Matches 17; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrolental fibroplasia, rubeosis, Osler-Webber Syndrome, myocardial angiogenesis, plaque neovascularisation, telangiectasia, haemophiliac joints, angiofibroma, wound granulation, intestinal adhesions, atherosclerosis, scleroderma and hypertrophic scars. The present sequence is an antiangiogenic nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to inhibiting angiogenesis in a subject, comprising administering at least one antiangiogenic nucleic acid molecule. Also included is a kit comprising a first container housing the antiangiogenic nucleic acids, and instructions for administering them to a subject having a condition characterised by unwanted angiogenesis. The method is useful for inhibiting angiogenesis associated with solid tumour growth, tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis, and also the control of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis; diabetic retinopathy; retinopathy of prematurity; macular degeneration; corneal graft rejection; neovascular glaucoma; retrolental fibroplasia;
Antibody-induced cell lysis; cancer; immunostimulatory; CD20;
                                                      Immunostimulatory nucleic acid SEQ ID NO:
                                                                                                                16-APR-2002
                                                                                                                                                                    ABL39008
                                                                                                                                                                                                                          ABL39008 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Inhibiting angiogenesis in a subject, involves administering at least antiangiogenic nucleic acid molecule to the subject.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       14-DEC-2000; 2000US-025534P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         scleroderma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                plaque neovascularisation; telangiectasia; haemophiliac joint;
angiofibroma; wound granulation; intestinal adhesion; atherosclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Angiogenesis inhibitor; ss; angiogenesis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              13-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      rubeosis; Osler-Webber Syndrome; myocardial angiogenesis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Angiogenesis inhibitory oligonucleotide #243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (COLE-) COLEY PHARM GROUP INC
                                                                                                                                                                                                                                                                                                                                                                                                                         426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Page 23; 276pp; English.
                                                                                                                                                                                                                                                                                                                                                               decedecedecedeced 19
                                                                                                                                                                                                                                                                                                                                                                                                                      GGCGGCTGCGGCGCGCG 444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      hypertrophic scar.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                             (first entry)
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                                                                                                                                                                                                                          20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 15.8; DB 1; Length 20; Pred. No. 2.7e+02; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ₽
                                                         410.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0 Other;
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RESULT 130
AAD35465/c
ID AAD354
XX AAD354
AC AAD354
XX 25-JUL
XX 25-JUL
XX Rat; SC
XX Rat; SC
XX Rat; SC
XX Infert
KW Infert
KW Infert
KW Hodgkin
KW Letter
KW Hodgkin
KW Gisen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention relates to methods for treating or preventing concer, involving administering to a subject having or at risk of concer, involving administering to a subject having or at risk of concer, involving administering to a subject having or at risk of concer, involving administering to a subject having or at risk of concer and invented and antibodies. The methods are useful for treating or preventing cancer such as basal cell carcinoma, bladder cancer, bone cancer, brain and central nervous system (CNS) cancer, connective tissue cancer, cervical cancer, eve cancer, kidney cancer, larynx concer, leukaemia, liver cancer, eve cancer, Hodgkin's lymphoma, melanoma, myeloma, oral cavity cancer, ovarian cancer, stomach cancer, testicular cancer, and uterine cancer. The present sequence is an immunostimulatory oligonucleotide described in the camplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local S
                 Rat; stem cell factor; SCF protein; leucopaenia; thrombocytopaenia; anaemia; myelosuppression; nerve damage; myeloproliferative disorder; infertility; neoplasia; myelofibrosis; myelopclerosis; osteopetrosis; metastatic carcinoma; acute leukaemia; multiple myeloma; sarcoidosis; Hodgkin's disease; lymphoma; Gaucher's disease; Niemann-Pick disease; Letterer-Siwe disease; refractory erythroblastic anaemia; Kala azar; Di Guglielmo syndrome; congestive splenomegaly; splenic pancytopaenia; disseminated fungus disease; Fulminating septicaemia; piebaldism; AIDS acquired immune deficiency syndrome; malaria; military tuberculosis; pyridoxine deficiency; vitamin B12 deficiency; folic acid deficiency; Diamond Blackfan anaemia; hypopigmentation disorder; vitiligo; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Treating or preventing cancer, such as basal cell carcinoma, comprise administering immunostimulatory nucleic acids that induce expression cell surface antigens and antibodies to a subject having or at risk or cell surface antigens and antibodies to a subject having or at risk or cell surface antigens and antibodies to a subject having or at risk or cell surface antigens and antibodies to a subject having or at risk or cell surface antigens and antibodies to a subject having or at risk or cell surface antigens and antibodies to a subject having or at risk or cell surface antigens and antibodies to a subject having or at risk or cell surface antigens and antibodies to a subject having or at risk or cell surface antigens and antibodies to a subject having or at risk or cell surface antigens and antibodies to a subject having or at risk or cell surface antigens and antibodies to a subject having or at risk or cell surface antigens and antibodies to a subject having or at risk or cell surface antigens and antibodies to a subject having or at risk or cell surface antigens and antibodies to a subject having or at risk or cell surface antigens and antibodies are cell surface antigens and antibodies are cell surface and antibodies are cell surface.
                                                                                                                                                                                                                                                                                                                                                                        Rat SCF 5'
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22-JUN-2001; 2001WO-US020154
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                                                                                                                                                                                                                                                                                                                                                                                                                               25-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAD35465;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAD35465 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               developing
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO200197843-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     426 GGCGGCTGCGGCGCGGCG 444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ့
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGCGGCGGCGGCGGCG 19
                                                                                                                                                                                                                                                                                                                                                                  cDNA amplifying PCR primer, 220-7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cancer.
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                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; 6 C; 14 G; 0 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            G
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pred. No. 2.70
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 15.8;
Pred. No. 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1; Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0 Other;
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AIDS;

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RESULT 131
ABS73849/c
ID ABS738
XX
AC ABS738
AC ABS738
XX
AC ABS738
XX
AC ASS738
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to novel non-naturally-occurring stem cell CC factor (SCF) polypeptides having an amino acid sequence sufficiently cy duplicative of that of naturally-occurring SCF to allow possession of CC haematopoietic biological activity of naturally occurring SCF. Sequences CC of the invention are useful for treating leucopaenia, thrombocytopaenia, CC engraftment of bone marrow during transplantation in mammals and chemical CC or chemotherapeutic induced bone marrow aplasia or myelosuppression. They CC amage, neoplasia, infertility, myeloproliferative disorder, intestinal CC damage in a mammal. SCF sequences are useful for preparing biologically CC active polymer polypeptide adduct, for enhancing transfection of early cative polymer polypeptide adduct, for enhancing transfection of early CC amammal. They are useful for treating myelofibrosis, myelosclerosis, CC disopetrosis, metastatic carcinoma, acute leukaemia, multiple myeloma, CC osteopetrosis, metastatic carcinoma, acute leukaemia, multiple myeloma, CC osteopetrosis, disease, refractory erythroblastic anaemia, Di Guglielmo CC syndrome, congestive splenomegaly, Kala azar, sarcoidosis, primary condition carcid deficiency, Diamond Blackfan anaemia, hypopigmentation CC disorders such as piebaldism, ADS (acquired immune deficiency, vitamin B12 and folic acid deficiency, Diamond Blackfan anaemia, hypopigmentation CC disorders such as piebaldism, ADS (acquired immune deficiency syndrome) and triligo. The present sequence is a PCR primer which is used for cc exemplifying the 5' end of rat SCF cDNA. This sequence is used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                            3849/c
ABS73849
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel non-naturally-occurring stem cell factor polypeptide, useful treating leucopenia, thrombocytopenia, anemia and for enhancing engraftment of bone marrow during transplantation in a mammal.
                            SCF universal oligonucleotide 220-7
                                                                                           05-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 3; Fig 12C; 217pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                              1519
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                                                                                                                                                                                                                                                                                                                                                                  19
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SUGGS S V.
MARTIN F H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ZSEBO K M
                                                                                                                                                                                                                                                                                                                                                                                                  TAAAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                                                                                                                                                                                  TANAANAANAAAAAAA 1
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ilarity 89.5%;
Conservative
                                                                                           (first entry)
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                                                                                                                                                                                                               DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; Score 15.8; D; Pred. No. 2.7e. 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length
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RESULT 132
ABK72022/c
ID ABK720
XX
AC ABK720
XX
TO 30-JUL
XX
DT 30-JUL
XX
DE Human
XX
Cancer
KW Cancer
KW myelom
KW head a
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                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                  Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     24-AUG-1990;
28-SEP-1990;
01-OCT-1990;
04-OCT-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Stem cell factor; SCF; blood-forming system; blood cell disorder; haematopoietic system; metastatic carcinoma; acute leukaemia; multiple myeloma; Hodgkin's disease; lymphoma; malaria; vitiligo; refractory erythroblastic anaemia; miliary tuberculosis; cytostatic; disseminated fungus disease; haematopoietic; tuberculostatic; antianaemic; antifungal; antimalarial; dermatological; ss.
                                                                                                                                                                                                                                                                                                                                                              Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                      mammals, particularly humans. The method of the invention is useful for the production of human SCF. The stem cell factors are useful to treat disorders involving blood cells e.g. metastatic carcinoma, acute leukaemia, multiple myeloma, Hodgkin's disease, lymphoma, refractory erythroblastic anaemia, miliary tuberculosis, diseased fungus disease, malaria, and vitiligo. The present sequence representing a universal oligonucleotide for SCF DNA is used in the examples of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                polynucleotide sequences encoding the SCFs, and methods of producing them. SCFs are involved in the blood-forming (haematopoietic) system in mammals, particularly humans. The method of the invention is useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Production of a human stem cell factor (SCF) polypeptide for treating disorders involving blood cells, such as leukemia, comprises culturing mammalian cells comprising non-human SCF promoter DNA linked to DNA encoding the human SCF.
                                                                                                      30-JUL-2002
                                                                                                                                    ABK72022;
                                                                                                                                                                ABK72022 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 3; Fig 12C; 120pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2002-684093/74.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Zsebo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16-OCT-1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            04-OCT-1990;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (AMGE-) AMGEN INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11-JUN-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             present invention relates to novel stem cell factors
                                                                                                                                                                                                                                                                     1519 ТААЛАЛАЛАЛАЛ 1537
                                                                          MTG16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ₹
                                                                                                                                                                                                                                          19 TARARARARARARARARARA 1
                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                             invention
                                                                         gene,
                                                                                                                                                                                                                                                                                                                                                              BP; 1 A; 0 C; 1 G; 18 T; 0 U;
                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2002EP-00008587
                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   90US-00537198.
90US-00573616.
90WO-US005548.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        90US-00589701.
90EP-00310899.
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                                                                         intron splice site
                                                                                                                                                                                                                                                                                                                  89.5%;
                                                                                                                                                                                                                                                                                                                                1.18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bosselman
                                                                                                                                                                 20
                                                                                                                                                                 ВÞ
                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                  Score 15.8; DB 1;
Pred. No. 2.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ₽,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Martin
                                                                                                                                                                                                                                                                                                                                                               0 Other;
                                                                                                                                                                                                                                                                                                      2
                                                                                                                                                                                                                                                                                                                                Length
                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                   20
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                                                                                                                                                                                                                                                                                                      0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      culturing
                                                                                                                                                                                                                                                                                                      Gaps
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Human; MTG16; tumour suppressor gene; 5-aza-2'-deoxycytidine; skin; cancer; DNA methylation; adenocarcinoma; leukaemia; lymphoma; melan myeloma; sarcoma; teratocarcinoma; breast; prostate; liver; ovary; head and neck cancer; neuroectoderm; placenta; skeletal muscle; ton

melanoma;

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                                                                                                                                                                                                                                                                                                                                                                  Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to an novel tumour suppressor gene (I) MTG16a or MTG16b and encoded polypeptide (II). (I) and (II), or a compound that mimics MTG16 activity such as 5-aza-2'-deoxycytidine, are useful for manufacturing a medicament for treating cancer, where it reverses DNA methylation. The cancer is adenocarcinoma, leukaemia, lymphoma, melanoma, myeloma, sarcoma, teratocarcinoma, and especially cancer of the breast, prostate, liver, ovary, head and neck, neuroectoderm, placenta, skeletal muscle, tones1, lymph tissue, kidney, colon, uterus, testis, stomach, adversal gland, bladder, bone, bone marrow, gall bladder, ganglia, carcaral gland, bladder, parathyroid, penis, salivary glands, skin, spleen gynovial membrane, thymus and thyroid gland. (I) and (II) are useful for diagnosis of a cancer, or predisposition to cancer, by establishing a profile for normal expression of MTG16 in unaffected subjects using primers derived from (I). MTG16 is further useful for identifying interarting mytheria mittable as Arm terrare.
                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              bladder; bone; bone marrow; gall bladder; ganglia; salivary gland; gastrointestinal tract; parathyroid; penis; salivary gland; spleen; synovial membrane; thymus; thyroid gland; PCR; primer; ss.
                  Immunostimulatory; antiinflammatory; dermatological; antipsoriatic; antiulcer; gene therapy; vaccine; non-allergic inflammatory disease; psoriasis; eczema; allergic contact dermatitis; latex dermatitis; inflammatory bowel disease; ulcerative colitis; Crohn's disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tumor suppressor gene which encodes polypeptide MTG16 active suppressing cellular function associated with cancer, useful manufacturing a medicament for treating cancer e.g. adenocard
                                                                                                                                                       25-SEP-2003
                                                                                                                                                                                                                                   ACD99549 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         interacting protein suitable as drug targets, where MTG16 is fused to a DNA binding domain and used as the bait in a yeast two-hybrid system. ABK7164-ABK72041 represent human MTG16 coding sequences and PCR primers
                                                                                                                Immunostimulatory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2002-382966/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-SEP-2000; 2000AU-00009806
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           31-AUG-2001; 2001WO-AU001097.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     lymph tissue; kidney; colon; uterus; testis; stomach; adrenal gland; bladder; bone; bone marrow; gall bladder; ganglia; salivary gland;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (BION-) BIONOMICS LTD
                                                                                                                                                                                                                                                                                                                                                                      1310 TTTTATTTTCAGAGACAGA 1328
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                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20 BP; 6 A; 3 C; 4 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                  TTTTACTTACAGAGACAGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Page 66; 125pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Whitmore SA,
                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                       (first entry)
                                                                                                                  nucleic
                                                                                                                                                                                                                                   DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                            1.1%;
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                                                                                                                  acid #235.
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                                                                                                                                                                                                                                   ВP
                                                                                                                                                                                                                                                                                                                                                                                                          0,
                                                                                                                                                                                                                                                                                                                                                                                                                              Score 15.8; DB 1; Length 20; Pred. No. 2.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            adenocarcinoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Crawford
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention describes a method of treating non-allergic inflammatory disease comprising administering to a subject having or at risk of developing a non-allergic inflammatory disease an immunostimulatory nucleic acid for prevention or treatment of the disease. The method is useful for treating non-allergic inflammatory diseases, such as psoriasis, eczema, allergic contact dermatitis, latex dermatitis or inflammatory bowel disease e.g., ulcerative colitis or Crohn's disease This sequence represents an immunostimulatory nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Treating non-allergic inflammatory diseases, such as psoriasis, eczema, allergic contact dermatitis, latex dermatitis or inflammatory bowel disease by administering an immunostimulatory nucleic acid.
                      Bratzler RL,
                                                                                                                        02-FEB-2001; 2001US-00776479
                                                                                                                                                   08-MAY-2003.
                                                                                                                                                                                                                           hypo-responsive subject; immunostimulatory.
                                                                                                                                                                                                                                       ds; allergy; asthma; poly-G nucleic acid; aerosol
                                                                                                                                                                                                                                                                 Immunostimulatory nucleic acid #232.
                                                                                                                                                                                                                                                                                          04-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 15; 229pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2003-521815/49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Krieg AM, Berg DJ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29-MAR-2002; 2002US-00112653.
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                                                                                                 03-FEB-2000; 2000US-0179991P
                                                                                                                                                                          US2003087848-A1
                                                                                                                                                                                                                                                                                                                   ADB36618
                                                                                                                                                                                                                                                                                                                                          ADB36618 standard; DNA; 20 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (KRIE/) KRIEG A M.
                                                                         (BRAT/)
                                                                                                                                                                                                                                                                                                                                                                                                                                 426
                                             PETERSEN D |
FOURON Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                 GGCGGCTGCGGCGCCCGGCG 444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                          (first entry
                       Petersen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1.1%;
                       Ŋ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ٥,
                       Fouron Y;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 15.8; DB 1;
Pred. No. 2.7e+02;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                         19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length
                                                                                                                                                                                                                                         formulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          0,
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ADESCULT 135
ADESCA461/C
ID ADESCA4
ACC ADESCA
XX ADESCA4
ACC ADESCA
XX Stem C
KW Stem C
KW Intest
KW Intest
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                25-NOV-1992;
21-DEC-1993;
24-MAY-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Stem cell factor; SCF; haematopoietic activity; infertility; intestinal damage; myeloproliferative disorder; leucopenia; thrombocytopenia; anaemia; bone marrow transplant; immune deficiency; neoplasia; nerve damage; osteoporosis; metastatic carcinoma; leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to a method of treating or preventing allergy or asthma which comprises administering to a subject a poly-G nucleic acid in an aerosol formulation. The method and compositions of the present invention are useful for diagnosing and/or treating asthma and allergy especially in a hypo-responsive subject. The present sequence represents an immunostimulatory nucleic acid of the invention.
                                                Disclosure; SEQ ID
                                                                                                                                                                                                                                                                               (ZSEB/)
(BOSS/)
(SUGG/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24-AUG-1990;
01-OCT-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               31-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              miliary tuberculosis; haematopoietic progenitor cell; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Stem cell factor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16-OCT-1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US2002031491-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADE52461 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Page 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Treating and/or preventing allergy or asthma using an immunostimulatory nucleic acid alone or in combination with an asthma/allergy medicament.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10-APR-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local 5.
                                                                                      non-natural stem cell factor, useful for une deficiency, also related nucleic acid
                                                                                                                                                                   2003-851459/79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          426
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BOSSELMAN R A.
SUGGS S V.
MARTIN F H.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGCGGCTGCGGCGCCGGCG 444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20 BP; 0 A; 6 C; 14
                                                                                                                                                                                                            Bosselman
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                              92US-00982255.
93US-00172329.
95US-00449653.
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90US-00573616.
90US-00589701.
91US-00684535.
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                                                  33;
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                                             217pp; English
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Pred.
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No. 2
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                                                                                                                                                                                                              Martin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .7e+02;
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                                                                                                                                                                                                            FH;
                                                                                           treating e.g. leucopenia and antibodies.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                   õ
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invention relates to

stem cell factor (SCF) polypeptides with

The invention relates to a novel pharmaceutical composition, which is first active agent comprising an oligonuclectide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking region, 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides

which has regions,

o.

polypeptide

Disclosure; SEQ ID NO 6828; 872pp; English

Pharmaceutical composition for treating ailments associated with impair respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or

associated with impaired

WPI; 2003-229219/22.

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RESULT 136
ABZ91586
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                                                                                                                                                                                                                        Nyce
                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
                                                                                                                                                                                                         Miller S,
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17; Conserv
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L, Shahabuddin
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RESULT 137
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XX ABZ855
XX ABZ855
XX Human
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Best Local
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Miller S,
                                                                    first active agent comprising an initiation codon, coding region, 5' and 3' intron-exon junctions,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
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Tang
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nilarity 89.5%;
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L, Shahabuddin
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Pred. No. 2.7e
0; Mismatches
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junctions of

encoding a polypeptide associated

The invention relates to a novel pharmaceutical composition, which has first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or

corresponding RNAs,

WPI; 2003-229219/22.

Miller

رت S, در S,

Li Y, Sam,

Sandrasagra A, L, Shahabuddin

S Katz Ė

Pabalan J,

Aguilar

Ö

(EPIG-) EPIGENESIS PHARM INC 24-APR-2001; 2001US-0286137P 23-APR-2002; 2002WO-US013135

Disclosure; ubiquinone

SEQ ID NO 4122; 872pp; English

Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or

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RESULT 138
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Matches 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiinflammatory; steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
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Miller
                                                                                                                                    Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiacle antiaction; some chera antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene thera antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allerg
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initiation codon, coding region, 5' and 3' intron-exon junctions,

novel pharmaceutical composition, which has ing an oligonucleotide antisense to the region, 5' or 3' end genomic flanking regions, tions, or regions within 2-10 nucleotides of g a polypeptide associated with lung and/or

The invention relates to a novel pharmaceutical composition, which has first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or

Claim 15;

SEQ ID NO 2418; 872pp;

English.

ubiquinone

Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or

Nyce Jv Miller

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first active agent comprising an

The invention relates to

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Disclosure; SEQ ID NO 4421; 872pp; English.

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                                    The invention relates to a novel pharmaceutical composition, which has first active agent comprising an oligonucleotide antiseense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
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antiinflammatory steroid and ubiquinone. A composition of the invention has antiinflammatory, antiallergic, antiasthmatic, hypotensive, immunosuppressive, and cytostatic activity. The composition may have a use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapetic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of, or reducing sensitivity to adenosine, reducing levels of adenosine receptor, producing bronchodilation, increasing levels of building suffactant in a subject's tissue, or treating bronchoconstriction, lung inflammation, lung allergies, or a respiratory disease or condition. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO at free with Name of the printed at fire with Name of the printed at fire with Name of the printed at fire with Name of the Name of 
Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        nasal airway dysfunction and a second active agent comprising antiinflammatory steroid and ubiquinone. A composition of the
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BP; 11 A; 0 C; 1 G; 8 T; 0 U; 0 Other;
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Best Local
ABZ89873 standard; DNA; 20
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                                                                                         1 Similarity
17; Conser
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Score 15.8;

DB 1;

Length

0

ARESULT 142
ARESULT 142
ARESUS 73
ID ABZ898
XX
ARESUS 74
ARESUS 74 Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; Human oligonucleotide sequence 17-OCT-2003 ABZ89873; sapiens. inflammation; respiratory disease; ds. (first entry) gene therapy;

WO200285308-A2

31-OCT-2002

23-APR-2002; 2002WO-US013135

24-APR-2001; 2001US-0286137P

(EPIG-) EPIGENESIS PHARM INC

Ä, Li ',
' Tang L, Sandrasagra A, L, Shahabuddin ŝ Katz E, Pabalan J, Aguilar

WPI; 2003-229219/22.

Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or ubiquinone.

Disclosure; SEQ ID NO 5115; 872pp; English

The invention relates to a novel pharmaceutical composition, which has first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, or regions within 2-10 nucleotides of 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or

encoding a polypeptide associated

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Matches 17
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Miller S
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                                                                                                                                    Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human, antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
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, Tang L,
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L, Shahabuddin
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Pred. No. 2.7e+02
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Matches 17
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Human oligonucleotide sequence
                                                                                                           17-OCT-2003
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Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antialathmatic; hypotensive; immunosuppressive; cytostatic; gene therapy antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
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                                                                                                                                                                                                                             inflammation; respiratory disease; ds.
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23-APR-2002; 2002WO-US013135

24-APR-2001; 2001US-0286137P

(EPIG-) EPIGENESIS PHARM

Nyce JW, Miller S, Li Y, Tang ŗ Sandrasagra A, L, Shahabuddin S Katz E, Pabalan J,

WPI; 2003-229219/22.

Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or

Disclosure; SEQ ID NO 4482; 872pp; English.

The inverse...

first active agent comprising .... - - 3' end years initiation codon, coding region, 5' or 3' end years ... - 10 nu 5' and 3' intron-exon junctions, or regions within 2-10 nu 5' and 3' intron-exon junctions a polypeptide associated with The invention relates to a novel vel pharmaceutical composition, which has an oligonucleotide antisense to the on, 5' or 3' end genomic flanking regions, ns, or regions within 2-10 nucleotides of

initiation codon, coding region, 5' and 3' intron-exon junctions,

vel pharmaceutical composition, which an oligonucleotide antisense to the on, 5' or 3' end genomic flanking regns, or regions within 2-10 nucleotide polypeptide associated with lung and

lanking regions, nucleotides of

ptides of and/or

which has

The invention relates to

active agent comprising an

Disclosure; SEQ ID NO 3936; 872pp; English.

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RESULT 145
ABD234406
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Miller S,
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                                                                                                                                                                                                                                              Pharmaceutical composition for treating asthma, has antisense oligonuclectide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and bronchodilating agent.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human myosin X-derived oligonucleotide SEQ ID 2418.
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17; Conserv
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Tang L,
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nilarity 89.5%;
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L, Shahabuddin S;
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cc reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, cc surfactant depletion or hyposecretion, when administered to a mammal. The cligonuclectides are derived from a gene encoding or regulating cc expression of a target polypeptide associated with lung airway or lung cytostenction or cancer and can be anti-sense to the corresponding mRNA. Climstruction also describes a kit, that comprises: (a) a delivery comparate containers, (b) the oligonuclectides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, can algesic, hypotensive, inmunosuppressive and cytosteatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The pulmonary obstruction, and/or bronchoconstriction and/or lung cinflammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction.

Cc inflammation, allergies, asthma, impeded respiration, respiratory conditions, allergies, asthma, impeded respiration, respiratory conditions under the condition such as pulmonary vasoconstriction or cancer. The reduced adenosine content of the anti-sense oligos corresponding to the oligonactoridation into products that free adenosine into brakdown of the many brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it
Sequence
20
B₽;
3 A;
8 C; 6 G; 3 T; 0 U;
0 Other;
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밁 S Matches Query Match Best Local 337 AGGAGCTCCTGCGCCGCCC 355 Similarity AGGAACTCCTGGGCCGCCC 19 Conservative 89.5%; 0; Score 15.8; Pred. No. 2. Mismatches 2.7e+02; DB 1; Length 20; Indels 0, 0

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ABD25470 standard; DNA;
                                                                  AIO41212-derived oligonucleotide SEQ ID 4482.
                                                                        29-JUL-2004
                                                                       (first entry)
                                                                                  20
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beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis; pulmonary transplantation rejection; ss; primer. Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;

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sapiens.
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WO200285309-A2

31-OCT-2002

23-APR-2002; 2002WO-US013143

24-APR-2001; 2001US-0286036P

EPIGENESIS PHARM

Nусе JW, ß Li Y, Tang Sandrasagra A, L, Shahabuddin Katz E, Pabalan J, Aguilar

comprising oligonucleotides, bronchoconstriction, respirat

15; SEQ

ID NO 2418; 763pp; English

This invention describes a novel composition (a) a first active agent, comprising oligonucleotides, effective for alleviating

effective cory tract

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ABD21764
ID ABD2
XX
AC ABD2
XX
AC ABD2
XX
BC Huma
XX
Huma
KW Fresp
KW Surf
KW anall
KW bete
KW aresp
KW aresp
KW aresp
KW apuln
XX
PN W020
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ঠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CC comprising oligonucleotides, effective for alleviating comprising oligonucleotides, effective for alleviating control or hyposecretion, has a final eviating control of the invention of hyposecretion, when administered to a mammal. The coligonucleotides are derived from a gene encoding or regulating control or cancer and can be anti-sense to the corresponding mRNA. The invention of a target polypeptide associated with lung airway or lung construction or cancer and can be anti-sense to the corresponding mRNA. The invention has antiallergic, antiinflammatory, antiasthmatic, constructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, constanting a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the smount of target polypeptide present in the lungs. The composition composition, allergies and/or bronchoconstriction are associated with a disease or condition such as pulmonary vasoconstriction, emphysema, chronic obstructions, bronchitis or cancer. The reduced adenosine content of the arget polypeptide present in the lungs. The configuration of the reduced adenosine content of the arget pulmonary vasoconstriction. The reduced adenosine content of the anti-sense oligos corresponding to the maintain rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to the oligonucleotides into products that free adenosine into the system content on the trease that the sense oligos corresponding to the oligonucleotides into products that free adenosine into the system content of the anti-sense oligos corresponding to the oligonucleotides into products that free adenosine into the system content of the anti-sense oligos corresponding to the oligonucleotides into the carget RNA serves to prevent the breakdown of the products that free adenosine into the system content of the system content of the system content of the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local :
                                                                                                               Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antisathmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory disease; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pharmaceutical composition for treating asthma, has antisense oligonuclectide containing less percentage of adenosine, targeted to nucleic golds associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                                                                                                                            Human stanniocalcin-derived oligo SEQ ID
                                                                                                                                                                                                                                                                                                                                                           29-JUL-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABD21764 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 15; SEQ ID NO 4482;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   bronchodilating
  WO200285309-A2
                                               Homo sapiens.
                                                                                           pulmonary transplantation rejection; ss;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1519 TAAAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2003-093058/08
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17; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TAAAAAAAAAAAAAAAA 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; 1 C; 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 15.8; DB 1;
Pred. No. 2.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       etc,
to it
                                                                                                                                                                                                                                                                                                              776.
                                                                                           primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <u>ب</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <u>,,</u>
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                                                                                                                                               ABD25409
                                                                                                                                                                 RESULT 148
                                                                                                                                                                                                                                                                                                 Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       dysfunction or cancer and can be anti-sense to the corresponding mRNA. The invention also describes a kit, that comprises: (a) a delivery device, in separate containers. (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, analgesic, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The pulmonary obstruction, and/or bronchoconstriction and/or lung inflammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction, and/or serbma impeded respiratory vasoconstriction.
                                                                                                                                                                                                                                                                                                                                                                                                        inflammation, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to thymidines present in the target RNA serves to prevent the breakdown of the oligonucleotides into products that free adenosine into the system e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            surfactant depletion or hyposecretion, when administered to a mammal. oligonucleotides are derived from a gene encoding or regulating expression of a target polypeptide associated with lung airway or lung
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             comprising oligonucleotides, effective for alleviating bronchoconstriction, respiratory tract inflammation, allex reducing adenosine sensitivity, levels of adenosine (A) or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This invention describes a novel composition comprising oligonucleotides, effective for al
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    oligonucleotide containing less per
nucleic acids associated with lung
             AI122807-derived oligonucleotide
                                                    29-JUL-2004
                                                                                         ABD25409
                                                                                                                              ABD25409
                                                                                                                                                                                                                                                                                                                                                                     Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Miller S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24-APR-2001; 2001US-0286036P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23-APR-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   bronchodilating agent.
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                                                                                                                                                                                                                                                                                                               Local
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                                                                                                                                                                                                                                                                                               17;
                                                                                                                                                                                                                       N
                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EPIGENESIS PHARM INC
                                                                                                                            standard; DNA; 20
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Tang L,
                                                                                                                                                                                                                       AAAAAAAAAAAAGAAAAG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 776;
                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                     BP; 18 A; 0 C; 2 G; 0 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2002WO-US013143
                                                      (first entry)
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                                                                                                                                                                                                                                                                                                               1.1%;
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                                                                                                                              ВP
                                                                                                                                                                                                                                                                                               0;
                                                                                                                                                                                                                                                                                                                 Score 15.8;
Pred. No. 2.
                                                                                                                                                                                                                                                                                                 Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        airway
                                                                                                                                                                                                                                                                                                               2.7e+02
                                                                                                                                                                                                                                                                                                                                    DB 1;
                                                                                                                                                                                                                                                                                                                                                                         0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        or lung
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (a) a first active agent,
                                                                                                                                                                                                                                                                                                 2; Indels
                                                                                                                                                                                                                                                                                                                                  Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      allergies and
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                                                                                                                                                                                                                                                                                                 0
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                                                                                                                                                                                                                                                                                                 Gaps
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SEQ ID

0

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comprising oligonucleotides, effective for alleviating composition, respiratory tract inflammation, allergies and creducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, surfactant depletion or hyposecretion, when administered to a mammal. The cligonucleotides are derived from a gene encoding or regulating cypression of a target polypeptide associated with lung airway or lung cypression or cancer and can be anti-sense to the corresponding mRNA. CC The invention also describes a kit, that comprises: (a) a delivery constructions for adding a carrier and for use of the kit. The composition of the invention has antiallargic, antiinflammatory, antiasthmatic, analgesic, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The composition, allergies and/or bronchoconstriction and/or lung cinflammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vascoconstriction are associated conflammation, emphysema, chronic obstructive pulmonary disease, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to the oligonucleotides into products that free adenosine into the system c.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it
                                                                                                                                                                     Query Match
Best Local
                                                                                                                                     Matches
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Miller S,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This invention describes a novel composition (a) a first active agent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  bronchodilating agent.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; antisense;
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                                                                                                                                 1 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EPIGENESIS PHARM INC
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, Tang L,
                                                                                                                                                                                                                                                                             20
                                                             ТАЛАЛАЛАЛАЛАДСТАЛЛА 1537
TAAAAAAAAAAAAAAA 19
                                                                                                                                                                                                                                                                             BP;
                                                                                                                                     Conservative
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L, Shahabuddin S;
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                                                                                                                                                                                                                                                                          A; 0 C; 0
                                                                                                                                                                     1.1%;
                                                                                                                                 <u>.</u>
                                                                                                                                                                     Score 15.8;
Pred. No. 2.
                                                                                                                                                                                                                                                                          G; 1 T; 0 U; 0 Other;
                                                                                                                                     Mismatches
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                                                                                                                                                                                                     Length 20;
                                                                                                                                        Indels
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                                                                                                                                     <u>,</u>
                                                                                                                                     Gaps
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밁 S

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RESULT 149
ABD25110
         CC oligonucleotides are derived from a gene encoding or regulating or lung dysfunction of a target polypeptide associated with lung airway or lung cysfunction of a target polypeptide associated with lung airway or lung cysfunction or cancer and can be anti-sense to the corresponding mRNA.

CC The invention also describes a kit, that comprises: (a) a delivery constructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, analgesic, hypotensive, immunosuppressive and cytostatic activity, is a composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered composition composition composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered cor availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The confidence in the lungs and/or bronchoconstriction and/or lung confidence in the lungs.
pulmonary obstruction, and/or pronchocombutation, are associated inflammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction, inflammation, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to thymidines present in the target RNA serves to prevent the breakdown of the middless present in the target RNA serves to prevent the breakdown of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nyce J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                comprising oligonucleotides, effective for alleviating bronchoconstriction, respiratory tract inflammation, allerg reducing adenosine sensitivity, levels of adenosine (A) or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This invention describes a novel composition (a) a first active agent,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 4122;
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L, Shahabuddin
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RESULT 150
ABD27816
ID ABD27818
XX ABD278
XX ABD278
XX ABD278
XX AA1024
XX Human;
KW respir
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KW surfac
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This invention describes a novel composition (a) a first active agent, CC comprising oligonuclectides, effective for alleviating compositing oligonuclectides, effective for alleviating active and compositing adenosine sensitivity, levels of adenosine (A) or (A) receptors, cc entractant depletion or hyposecretion, when administered to a mammal. The coligonuclectides are derived from a gene encoding or regulating cc expression of a target polypeptide associated with lung airway or lung cc dysfunction or cancer and can be anti-sense to the corresponding mRNA. CC The invention also describes a kit, that comprises: (A) a delivery cc device, in separate containers, (b) the oligonuclectides, (c) containers, (b) the oligonuclectides, (c) constructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, cc treating a respiratory, lung or malignant disease. The administered composition 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; antisense; bronchoconstriction; allergy; hyposecration; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antinflammatory; antisethmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;
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Pred. No. 2
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   reduce the amount of target polypeptide present in the lungs. The pulmonary obstruction, and/or bronchoconstriction and/or lung inflammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction, inflammation, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to thymidines present in the target RNA serves to prevent the breakdown of the oligonucleotides into products that free adenosine into the system e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it
                                                                                                                                                                                                        Nyce JW,
Miller S
                                                                                                                                                                                                                                                                                                                                                                                                                              respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antinflammatory; antiasthmatic; sanalgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis; pulmonary transplantation rejection; ss; primer.
                                                                                                              Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                   bronchodilating
                                                                                                                                                                                                                                                                               24-APR-2001; 2001US-0286036P
                                                                                                                                                                                                                                                                                                               23-APR-2002; 2002WO-US013143.
                                                                                                                                                                                                                                                                                                                                            31-OCT-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; antisense;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AA463249-derived oligonucleotide SEQ ID 5115.
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Tang
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                                                                                                                                                                                                      Sandrasagra A,
L, Shahabuddin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          bronchoconstriction; allergy; hyposecretion; pain;
                                                                     5115;
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Pred.
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                                                                     English
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No. 2.7e+02;
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lungs. The
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bronchoconstriction, comprising oligonucleotides,

cleotides, effective for alleviating n, respiratory tract inflammation, allergies sensitivity, levels of adenosine (A) or (A)

receptors,

(a) a first active

agent,

This invention describes a novel composition

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RRSULT 152
ADH673
XX ADH673
XX ADH673
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XX ATLIBE
CONT 25-MAR
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Best Local
                                       New antisense compound targeted to a nucleic acid molecule encoding mammalian glucocorticoid receptor, useful for treating diabetes, obesity, cardiovascular disorder, hyperlipidemia or Cushing's syndrome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           inflammation; tumour formation; diabetes; obesity; cardiovascular disorder; hyperlipidaemia; Cushing's syndrome; phosphorothioate backbone; 2'-methoxyethyl; 2'-MOE.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20-MAY-2003;
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Pred. No. 2.
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Matches 17
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                           The invention comprises an antisense oligonucleotides that are targete to nucleic acids encoding a mammalian glucocorticoid receptor. The antisense oligonucleotides of the invention are useful for preventing delaying infection, inflammation or tumour formation. The antisense oligonucleotides are also useful for treating diabetes, obesity, cardiovascular disorders, hyperlipidaemia or Cushing's syndrome. The present DNA sequence represents an antisense oligonucleotide that targ the human glucocorticoid receptor gene. NOTE: The present sequence contains 2'-methoxyethyl (2'-MOE) wings and a phosphorothioate backbon
                                                                                                                                                                                                  Claim 4;
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cardiovascular disorder, hyperlipidemia or
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   antisense oligonucleotide; glucocorticoid receptor; infection; inflammation; tumour formation; diabetes; obesity; cardiovascular disorder; hyperlipideemia; Cushing's syndrome; human; phosphorothioate backbone; 2'.methoxyethyl; 2'.MOE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human glucocorticoid receptor-specific antisense oligonucleotide #4235.
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                                                                                                                                                                                                                                 useful for treating diabetes, obesity, demia or Cushing's syndrome.
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Sequence

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18 T; 0 U; 0 Other;

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Length

20;

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RESULT 154
ADK74414/c
ID ADK744
XX ADK744
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Best Local :
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                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                    The present invention relates to an antisense compound targeted to a nucleic acid molecule encoding Nav1.3, where the antisense compound specifically hybridizes with and inhibits the expression of Nav1.3. The compound and composition are useful for treating a disease or condition associated with Nav1.3, e.g. pain including but not limited to neuropathic pain, post-herpetic neurabils, chronic pain, lower back pain, diabetic neuropathy, trigeminal neuropathy, arthritic pain, acute pain, pain from burns, migraine headache, cluster headache, mild-to-moderate headache, seizure disorder such as childhood seizure disorder, including but not limited to neonatal or infantile epilepsy; or ataxia. The present sequence represents a chimeric phosphorothoate oligonucleotide with 2'MOE wings and a deoxy gap. Used during the antisense inhibition of human Nav1.3 expression, the oligonucleotides are designed to target different regions of the human Nav1.3 RNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New antisense compound targeted to a nucleic acid molecule encoding Nav1.3, useful for useful for treating a disease or condition associated with Nav1.3, e.g. pain, seizure disorder such as childhood seizure
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nav1.3; Analgesic; Nootropic; Neuroprotective; post-herpetic neuralgia; diabetic neuropathy; arthritic pain; migraine headache; infantile epilepsy; ataxia; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 4; SEQ ID NO 1748; 417pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        disorder, or ataxia.
                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2004-203785/19
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                                                                                                                         17; Conserv
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                                                           AAAAAAAAAAAGTAAAAG 1538
                                                                                                                                                                                                                                                  20 BP; 0
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                                                                                                                         Conservative
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                                                                                                                                                1.1%;
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0; Mismatches 2
                                                                                                                                                       Score 15.8; DB 1; Length 20; Pred. No. 2.7e+02;
                                                                                                                         Mismatches
                                                                                                                                                2.7e+02
                                                                                                                                                                                                                                                      0 Other;
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                                                                                                                         Gaps
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RESULT 155 ADK74367/c

GFAT; Antidiabetic; Cardiant;
Glutamine-fructose-6-phosphate amidotransferase; diabetes; ischemia;

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RESULT 156
ADP78117/c
ID ADP781
XX
AC ADP781
XX
DT 12-AUG
XX
XX
Chimer
XX
KW GFAT;
KW Glutam
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                                                                                                                                                                                                                                                                                                                                                                                 The present invention relates to an antisense compound targeted to a nucleic acid molecule encoding Navl.3, where the antisense compound generically hybridizes with and inhibits the expression of Navl.3. The compound and composition are useful for treating a disease or condition associated with Navl.3, e.g. pain including but not limited to neuropathic pain, post-herpetic neuralgia, chronic pain, lower back pain, chiabetic neuropathy, trigeminal neuropathy, arthritic pain, acute pain, diabetic neuropathy, trigeminal neuropathy, arthritic pain, acute pain, pain from burns, migraine headache, cluster headache, mild-to-moderate headache; seizure disorder such as childhood seizure disorder, including but not limited to neonatal or infantile epilepsy; or ataxia. The present sequence represents a chimeric phosphorothioate oligonucleotide with 2°MOE wings and a deoxy gap. Used during the antisense inhibition of human Navl.3 expression, the oligonucleotides are designed to target different regions of the human Navl.3 RNA.
                                                                                                                                                                                                                                                                                         Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New antisense compound targeted to a nucleic acid molecule encoding Nav1.3, useful for useful for treating a disease or condition associated with Nav1.3, e.g. pain, seizure disorder such as childhood seizure disorder, or ataxia.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nav1.3; Analgesic; Nootropic; Neuroprotective; post-herpetic neuralgia; diabetic neuropathy; arthritic pain; migraine headache;
                                              Chimeric phosphorothioate oligonucleotide #1916
                                                                              12-AUG-2004
                                                                                                              ADP78117;
                                                                                                                                              ADP78117 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 4; SEQ ID NO 1701; 417pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            infantile epilepsy; ataxia; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Chimeric phosphorothioate oligonucleotide to target Nav1.3 #1701
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                                                                                                                                                                                                                                                  1520 AAAAAAAAAAAGTAAAAG 1538
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                                                                                                                                                                                                                            20 AAAAAAAAAAAAAAAAG
                                                                                                                                                                                                                                                                                          l Similarity
17; Conserv
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                                                                                                                                                                                                                                                                                                                                                          BP;
                                                                                                                                                                                                                                                                                          Conservative
                                                                              (first entry)
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                                                                                                                                              ВP
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                                                                                                                                                                                                                                                                                       Score 15.8; DB 1;
Pred. No. 2.7e+02;
0; Mismatches 2;
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                                                                                                                                                                                                                                                                                                                                                        18 T; O U;
                                                                                                                                                                                                                                                                                                                                                          0 Other;
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                                                                                                                                                                                                                                                                                                                        Length
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RESULT 157
ADP78118/c
ID ADP781
XX ADP781
XX ADP781
XX ADP781
XX ADP781
XX ADP781
XX GPAT;
XX GPAT;
XX GPAT;
XX reperf
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                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                  Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to a compound which specifically hybridizes with a nucleic acid molecule encoding GFAT, and inhibits the expression of GFAT. Specifically claimed are antisense oligonucleotides capable of modulating the expression of GFAT, and which comprise any of the 3063 sequences of 20 base pairs, given in the specification. The compound, composition and methods are useful for treating a disease or condition associated with GFAT, such as a disease or condition, e.g. diabetes, a cardiovascular or neurological disorder, ischemia/reperfusion injury. They are also useful in research and disgnostics for modulating the expression of GFAT. The present sequence represents a chimeric phosphorothicate oligonucleotide with 2'-MCE wings and a deoxy gap, these
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            modified_base
                              Glutamine-fructose-6-phosphate amidotransferase; diabetes; ischemia;
                                           GFAT; Antidiabetic; Cardiant;
                                                                      Chimeric
                                                                                                                                                         ADP78118
                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New compounds, particularly antisense oligonucleotides targeted to a nucleic acid encoding glutamine-fructose-6-phosphate amidotransferase (GFAT), for treating diabetes, a cardiovascular or neurologic disorder, ischemia/reperfusion injury.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17-OCT-2002; 2002US-0419268P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  02-OCT-2003; 2003WO-US033332
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        reperfusion;
                                                                                                                               ADP78118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2004-348453/32.
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                                                                                                                                                                                                                                                                                                                                                                     oligonucleotides inhibit human GFAT expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 4; SEQ ID NO 1916; 175pp; English
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                                                                                                                                                                                                                                                                                                 Local
                                                                                                                                                                                                                                                        1248
                                                                                                                                                                                                                             19
                                                                                                                                                                                                                                                                                   l Similarity
17; Conserv
                                                                                                                                                                                                                               TCTGTTTTGTTTTTAAATC 1
                                                                                                                                                                                                                                                        TTTGTTTTGTTTTTTAATC 1266
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                                                                      phosphorothicate oligonucleotide #1917.
                                                                                                                                                         standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                           BP; 13
                                                                                                                                                                                                                                                                                   Conservative
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                                                                                                 (first entry)
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17. .20
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/mod_ba
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/note= "2-methoxyethyl wing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /*tag= a
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                                                                                                                                                                                                                                                                                                                                           Α;
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                                                                                                                                                                                                                                                                                                                                           2 G; 3 T; 0 U;
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                                                                                                                                                                                                                                                                                                 Score 15.8; DB 1; Pred. No. 2.7e+02;
                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                           0 Other;
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                                                                                                                                                                                                                                                                                                               Length
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                   with a nucleic acid molecule encoding GPAT, and inhibits the expression of GFAT. Specifically claimed are antisense oligonucleotides capable of modulating the expression of GFAT, and which comprise any of the 3063 sequences of 20 base pairs, given in the specification. The compound, composition and methods are useful for treating a disease or condition associated with GFAT, such as a disease or condition, e.g. diabetes, a cardiovascular or neurological disorder, ischemia/reperfusion injury. They are also useful in research and diagnostics for modulating the expression of GFAT. The present sequence represents a chimeric phosphorothicate oligonucleotide with 2'-MOE wings and a deoxy gap, these oligonucleotides inhibit human GFAT expression.
             SCF; stem cell factor; gene therapy; haematopoietic progenitor cell; aplastic anaemia; paroxysmal nocturnal haemoglobinuria; myelofibrosis; metastatic carcinoma; acute leukaemia; multiple myeloma; Hodgkin's disease; lymphoma; Gaucher's disease; Niemann-Pick disease; Letterer-Siwe disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New compounds, particularly antisense oligonucleotides targeted to a nucleic acid encoding glutamine-fructose-6-phosphate amidotransferase (GFAR), for treating diabetes, a cardiovascular or neurologic disorder, ischemia/reperfusion injury.
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                                                                                                                                                                                              ADP99303 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                           Sequence 20
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                                                                                                                                                                  ADP99303;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      present invention relates to a compound which
                                                                                                                                                                                                                                                                       20
                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                     GTTTTGTTTTTAATCAGA 1269
                                                                                                                                                                                                                                                                       GTTTTGTTTTTAAATCAAA 2
                                                                                                                                                                                                                                                                                                                                                                                           B₽;
                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Crosby SD;
                                                                                                                                                                                                                                                                                                                                                                                          10 A; 2 C; 2 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     note= "2-methoxyethyl wing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      mod
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            *tag= a
mod_base= other
                                                                                                      SCF, universal PCR primer #3
                                                                                                                                                                                                                                                                                                                                              1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    base= other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "2-methoxyethyl wing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    σ
                                                                                                                                                                                                ВP
                                                                                                                                                                                                                                                                                                                                 <u>,</u>
                                                                                                                                                                                                                                                                                                                                          Score 15.8; Ub 1,
                                                                                                                                                                                                                                                                                                                                  Pred. No. 2.70
0; Mismatches
Guglielmo
                                                                                                                                                                                                                                                                                                                                                                 DB 1;
                                                                                                                                                                                                                                                                                                                                                            Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         specifically hybridizes
                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                          these
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CR (SEP) polypeptide comprising growing as (vertebrate) human stem cell factor (CR (SEP) polypeptide comprising growing host cells transformed or transfected with DNA encoding a human SCF that stimulates growth of a mematopoletic progenitor cells under nutrient conditions, the DNA being coperatively linked to an expression control sequence, and isolating the polypeptide produced. Also included is a recombinant host cell transformed or transfected with an expression control sequence, and isolating the collegal polypeptide produced is a recombinant host cell. Disclosed as new are rated the vertebrate SCF polypeptide in the host cell. Disclosed as new are rated and human nucleic acids encoding SCF, SCF proteins from a number of other combinant per sequences are useful for effecting the large scale synthesis of SCF by a variety of recombinant techniques or for generating new and useful viral candidate the combinant per sequences are also where and useful transfected prokaryotic and eukaryotic host cells, and new and useful transfected prokaryotic and eukaryotic host cells capabale of expression of SCF and its related products. The DNA encoding SCF, in methods for cultured growth of such products in guantity. The SCF is completed products of sequences are also useful as and the production of SCF and SCF products in quantity. The SCF is costs for production of SCF and SCF products in quantity. The SCF is costs for production of SCF and SCF products in quantity. The SCF is costs for production of SCF and SCF products in quantity. The SCF is costs for production of SCF and SCF products in quantity. The SCF is costs for production of SCF and SCF products in quantity. The SCF is costs for production products of schementary, scute shick may serve as eukaryotic costs for production of SCF and SCF products in quantity. The SCF is costs of schementary schements, but Guglielmo, cost of schementary schements, but Guglielmo, cost of schements, multiple myeloma, scute schements, but Guglielmo, cost of schements, schements, schem
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Preparing a human stem cell factor (SCF) polypeptide, useful for treating hematopoietic disorders, e.g., aplastic anemia, comprises growing host cells transformed or transfected with DNA encoding a human SCF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    primary splenic pancytopaenia; miliary tuberculosis; disseminated fungus disease; Fulminating septicaemia; malaria; vitamin B12 deficiency; folic acid deficiency; pyridoxine deficiency; Diamond Blackfan anaemia; hypopigmentation disorder; piebaldism; vitiligo; neurological damage; infertility; intestinal damage; irradiation; chemotherapy; AIDS; haematopoietic recovery;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 3; SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2004-497128/47
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01-OCT-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                congestive splenomegaly; Kala awar; sarcoidosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (AMGE-) AMGEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-NOV-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10-APR-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bosselman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                loss; neoplasm; cancer; ss; PCR; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               200005-00635251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            89US-00422383
90US-00537198
90US-005373616
90US-00589701
91US-00684535
92US-00982255
93US-00172329
95US-00449182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          33; 210pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    β
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sugge SV; Martin
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RESULT 159
AAQ75724/c
ID AAQ75724;

XX
ACTS7224;

XX
ACTS7224;

XX
ACTS7224;

XX

DT 04-AUG-1995 (first entry)
XX

DE Reverse transcription primer
XX
Analysis; gene expression; re
XX
Analysis; restriction enzyme
XX
Synthetic.
XX
JP06303997-A.
XX
O1-NOV-1994.
XX
X
VD 01-NOV-1994.
XX
XX
XX
I6-APR-1993; 93JP-00112515.
XX
XX
PD 01-NOV-1993; 93JP-00112515.
XX
XX
D16-APR-1993; 93JP-00112515.
XX
XX
D15-APR-1993; 93JP-00112515.
XX
Analysis of cDNA and gene expert
XX
Analysi
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local (
                                                                                                      Matches
                                                                                                                            Query Match
Best Local
                                                                                                                                                                                                                                                     A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AAQ75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Analysis of cDNA and gene expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           boost to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Reverse transcription primer used in cDNA analysis technique.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (NITE ) NIPPON TELEGRAPH & TELEPHONE CORP
                                              1518 ТТАЛАЛАЛАЛАЛАСТАЛА 1536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1519 TAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               19
19 TTAAAAAAAAAAAAAAAA 1
                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TAAAAAAAAAAAAAAAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               is a universal SCF PCR primer used in the isolation of SCF DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  yene expression; reverse transcription; primer; cDNA;
restriction enzyme; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BP; 1
                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             with restriction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 93JP-00112515
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   93JP-00112515
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Α,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1.1%;
                                                                                                                            1.1%;
                                                                                                                                                                                                         0 C; 0 G; 17 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0 C; 1 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ВP
                                                                                                      0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pred. No. 2.70
0; Mismatches
                                                                                                                               Score 15.8;
Pred. No. 2.
                                                                                                                            Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 15.8;
Pred. No. 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          enzymes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           18
                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ý
                                                                                                                               2.5e+02
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                                                                                                                                                          DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      amplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                     Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mRNA followed
                                                                                                      0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                      Gaps
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RESULT 160
AAQ75719/c
ID AAQ757
XX
AC AAQ757
XX
AC AAQ757
XX
AC AAQ757

standard; DNA;

21

**BP** 

AAQ75719; AAQ75719

04-AUG-1995

(first entry)

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RESULT 161
AAQ75722/c
ID AAQ75722;
XX AAQ75722;
XC AAQ75722;
XX O4-AUG-199
XX Reverse tr
XX Analysis;
KW Analysis;
KW Aggregate;
XX Synthetic.
XX JP0630399;
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A method for the analysis of cDNA comprises (a) preparing an aggregate of double-stranded cDNAs by using an aggregate of mRNAs and a plural type (labelled reverse transcrippion primers (CENESEQ files AAQ75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The
                                                 WPI; 1995-018287/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Analysis of cDNA and gene expression - by digestion with restriction enzymes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1995-018287/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             aggregate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Reverse
                                                                                                                                                                                                                                              01-NOV-1994
                                                                                                                                                                                                                                                                                             JP06303997-A.
                                                                                                                                                                                                                                                                                                                                                                                         aggregate;
                                                                                                                                                                                                                                                                                                                                                                                                                     Analysis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Reverse transcription primer used in cDNA analysis technique.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              04-AUG-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-NOV-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JP06303997-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Analysis; gene expression; reverse transcription; primer; cDNA;
                                                                                                   (NITE ) NIPPON
                                                                                                                                                                                               16-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (NITE ) NIPPON TELEGRAPH & TELEPHONE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1518 ТТАААЛАЛАЛАЛАСТАЛА 1536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         can
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21 BP; 2 A; 0 C; 2 G; 17 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTAAAAAAAAAAAAAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                gene expression; reverse transcription;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                            restriction enzyme;
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       cDNA and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
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                                                                                                TELEGRAPH & TELEPHONE CORP
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Pred. No. 2.5e+02;
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Best Local 9
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                                                                                                A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AAQ75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAQ75723
                                                           Sequence 21
                                                                                                                                                                                                               Disclosure; Page
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by digestion with restriction enzymes.
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    Score 15.8; DB 1;
Pred. No. 2.5e+02;
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Pred. No. 2.5e+02;
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TTAAAAAAAAAAAGTAAA 1536

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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Page 8; 11pp;
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 01-NOV-1994
                         JP06303997-A.
                                                                            Analysis; gene expression; reverse transcription; primer; cDNA; aggregate; restriction enzyme; ss.
                                                                                                                 Reverse transcription primer used in cDNA analysis technique.
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restriction enzyme; ss.
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ilarity 89.5%;
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Best Local
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A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GRNESEQ files AAQ75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The
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; restriction enzyme; ss.
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Pred. No. 2.5e+02;
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RESULT 166
AAQ757720/C
ID AAQ757
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RESULT 167
AAZ90186
ID AAZ901
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DT 19-MAY
XX
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A method for the analysis of cDNA comprises (a) preparing an aggregate of double-stranded cDNAs by using an aggregate of mRNAs and a plural type (labelled reverse transcription primers (GENESEQ files AAO75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                                 19-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           method can be used
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Reverse transcription primer used in cDNA analysis technique.
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                                                                                                                                        AAZ90186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 21 BP; 3 A; 0 C; 1 G; 17 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; Page 8; 11pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Analysis of cDNA and gene expression - by amplification of mRNA followed by digestion with restriction enzymes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            04-AUG-1995
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                                                                                                                                        standard;
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ilarity 89.5%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                   Score 15.8; DB 1; Length 21; Pred. No. 2.5e+02; O; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 15.8;
Pred. No. 2.
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RESULT 168
AAZ90191/c
ID AAZ901

AAZ90191 standard; cDNA;

21

ВP

AAZ90191;

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This sequence represents a primer used to obtain the sequence of the CC human chemokine receptor of the invention. The chemokine receptor consultation and the sequence (see AAZ90175) is derived from a human foetal liver-spleen cDNA library. The chemokine receptor (see AAY978856) encoded by the nucleotide sequence inhibits the activity of interleukin-8-type compounds through competition for cell binding sites. The chemokine receptor gene is located on the short arm of chromosome 7 at 7p22. The polynucleotide encoding the chemokine receptor is useful as a hybridization probe or a PCR primer, the nucleotide sequence may also be used for chromosome/gene mapping or in the recombinant production of polypeptides and the compounds for the chemokine receptor polypeptides are used to raise gene expression. The chemokine receptor polypeptides are used to raise compounds antibodies, also for purification, detection or modulation of interleukin-8-type chemokines (for diagnosis or prognosis, or monitoring chemokine recruitment at a site of infection or inflammation). The chemokine receptor polypeptides are used to raise agents, potential agonists or antagonists. Antibodies raised against the chemokine receptor polypeptide sequence are used to detect or purify the polypeptide and antibodies are also used to prevent neutropaenia conspound the chemokines and treatment to factivated or inflamed cells or tissues, and to promote the healing of wounds. The polypeptide and antibodies are also used to prevent neutropaenia consponiated with chemotherapy or radiation treatment to protect myeloid precursors), inflammation or other immune responses; also conditions associated with chemotherapy or radiation treatment to protect myeloid consponse such antibodies are potentially useful therapeutically, e.g. to carry toxins to tumour cells
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                                                                                                   Query Match
Best Local 9
                                                                                 Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New nucleic acid encoding chemokine receptor, useful for diagnosis and treatment of e.g. neutropenia, inflammation and leukemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29-JUN-1998;
22-JAN-1999;
                                                                                                                                                               Sequence 21 BP; 3 A;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2000-170907/15.
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                                        569 CAGCAGGGGGGGGGGTAGG 587
                                                                             l Similarity
17; Conservat
CAGCAGGTGCTGGCGTAGG 19
                                                                               Conservative
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99US-00236166.
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                                                                                                1.1%;
                                                                                                                                                               5 C; 10 G; 3 T; 0 U; 0 Other;
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                                                                                                                      Score 15.8; DB 1; Length 21;
                                                                                                     Pred. No.
                                                                                 Mismatches
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                                                                                                     .5e+02;
                                                                                   Indels
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                                                                               Gaps
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19-MAY-2000

(first entry)

prime used for cloning human chemokine receptor.

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ABS97869
                                          RESULT 169
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                                                                                                                                                                                                                                                                                                                                 CThis sequence represents a PCR primer used in the cloning of the human CC chemokine receptor of the invention. The chemokine receptor nucleotide CC sequence (see AAZ90175) is derived from a human foetal liver-spleen cDNA CC library. The chemokine receptor (see AAY78856) encoded by the nucleotide CC sequence inhibits the activity of interleukin-8-type compounds through CC competition for cell binding sites. The chemokine receptor gene is CC located on the short arm of chromosome 7 at 7922. The polynucleotide CC encoding the chemokine receptor is useful as a hybridization probe or a CC PCR primer, the nucleotide sequence may also be used for chromosome/gene CC mapping or in the recombinant production of polypoptides and the control of gene expression. The chemokine receptor polypoptides and the control of cc interleukin-8-type chemokines (for diagnosis or prognosis, or monitoring CC chemokine recruitment at a site of infection or inflammation). The CC protein sequence can also be used as molecular weight markers or food conjuplements, and to screen compound libraries for specific binding capants, potential agonists or antagonists. Antibodies raised against the CC polypeptide, also for the diagnosis and treatment of activated or inflamed cells or tissues, and to promote the healing of wounds. The CC polypeptide and antibodies are also used to prevent neutropaenia condicated with hyperproliferation of progenitor cells (e.g. some condicated with hyperproliferation of progenitor cells (e.g. some condicated with progency cells of progenitor cells (e.g. some condicated with chemotherapy or radiation treatment to protect myeloid condicated with hyperproliferation of progenitor cells (e.g. some condicated with chemotherapy cells of condicated with hyperproliferation of progenitor cells (e.g. some condicated with progenitor cells of condicated with cells are polyperated and hypermegakaryocytopoietic cells of the condicated with cells are polyperated and hypermegakaryocytopoietic cells of the cells of the cells of the cel
                                                                                                                                                                                               Matches
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Best Local &
  ABS97869 standard;
                                                                                                                                                                                                                                                                                  Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New nucleic acid encoding chemokine receptor, useful for diagnosis and treatment of e.g. neutropenia, inflammation and leukemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2000-170907/15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      toxin delivery; hypermegakaryocytopoietic disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Chemokine receptor; interleukin-8 compound inhibitor; chromosome 7p22; inflammation; wound healing; neutropaenia; myeloid leukaemia; tumour;
                                                                                                                                                                                                                                                                                                                            toxing to tumour cells
                                                                                                           21
                                                                                                                                                                                            l Similarity
17; Conser
                                                                                                                                                                                                                                                                                  21 BP; 3
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99US-00236166.
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DNA;
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Pred. No. 2.5e+02;
                                                                                                                                                                                                                                                                               G; 3 T; 0
                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                  U; 0 Other;
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                                                                                                                                                                                            Gaps
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KW Human; ss; primer; cytochrome P450 Al; CYP4501Al; UGT2B4; MDR1; PCR; KW cytochrome P450 A2; CYP4501A2; cytochrome P450 A2E; CYP45002E1; LTF; KW adrenergic receptor beta1; ADBR1; aryl hydrocarbon; AHR; MRP3; NR112; KW aryl hydrocarbon receptor nuclear translocator; ARNT; cathepsin S; CTSS; KW cyclooxgenase 2; COX2; diazepam binding inhibitor; DBI; haematological; KW epoxide hydroxylase 2; EPHX2; 5-lipoxygenase activating protein; FLAP; Gyllar, histamine-N-methyl transferase; KW glutathione-S-transferase; 12; GST12; histamine-N-methyl transferase; NNMT; KM NADPH quinone oxidoreductase 2; NQO2; sulfotransferase thermolabile; STM; WNADPH quinone oxidoreductase 214; UDD-glucuronosyl transferase 2B4; UDD-glucuronosyl transferase 2B4; UDD-glucuronosyl transferase; NGT2B15; urokinase receptor; uPA; KW UDD-glucuronosyl transferase 214; UDD-glucuronosyl transferase; NGT2B15; urokinase receptor; uPA; KW multidrug resistance 1; lactotransferrin; orphan nuclear receptor; KW multidrug resistance associated protein 3; cancer; prostate; acetylboline muscarinic receptor; CHMR1; CHMR2; CHMR3; CHMR4; CHMR5; KW altered drug metabolism; cardiovascular function; colorectal tumour; KW central nervous system; pulmonary; immunological.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Guida M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28-NOV-2000; 2000US-00724389
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (DNAS-) DNA SCI LAB INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hall J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
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Isolated nucleic acid molecules having polymorphisms in known human genetic cytochrome p450 and cathepsin S useful as genetic linkage markers for locating, identifying and characterizing the genes responsible for disorder-related traits.

WPI; 2002-698522/75.

Example 18; Page 133; 714pp; English.

CC cytochrome P450 02E1 (CYP45002E1), adveneygic receptor betal (ADBR1), CC cytochrome P450 02E1 (CYP45002E1), adveneygic receptor betal (ADBR1), CC (ARNT), cathepein S (CTSS), cytocoxgenase 2 (COX2), diazepam binding CC inhibitor (DBI), epoxide hydroxylase 2 (EPHX2), 5-lipoxygenase activating CC protein (FLAP), glutathione-S-transferase (12 (SST12), histamine-N-methyl CC transferase (HNMT), (Kallikrein 2) KLK2, nicotinamide -N-methyl CC transferase (HNMT), NADPH quinome oxidoreductase 2 (NQO2), (UGT2B4), UDP-glucuronosyl transferase (ENQO2), CC (UGT2B4), UDP-glucuronosyl transferase 2B4 (UGT2B1), urokinase receptor (NRII), UDP-glucuronosyl transferase 2B4 (UGT2B1), lactotransferrin (LTF), multidrug resistance associated protein 3 (C (MRP3), orphan nuclear receptor (NRII), or acetylcholine muscarinic CC receptor 1, 2, 3, 4, or 5 (CHMR1, CHMR3), CHMR4 or CHMR5) sequence. CC The polymorphisms in the human genes cited in the invention are useful as genetic linkage markers for locating and characterising the genes that CC are responsible for specific traits within the genome and eventually cc identifying the genes responsible for a variety of disorder-related CC expression, mutation or underexpression, which may be used in diagnosing and/or treating the disorders. The nucleic acid molecules comprising the C (MRI) and/or MDR3 are useful for screening individuals for altered drug metabolism. The polymorphic sequences contained in CYP4501A1, CYP4501A1, CYP94501A2, This invention relates to the sequence of an isolated nucleic acid molecule comprising at least one base variation from that of a known human cytochrome P450 A1 (CYP4501A1), cytochrome P450 A2 (CYP4501A2),

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RESULT 170
ADKO1287/c
ID ADKO12
XX ADKO12
XX ADKO12
XX B5; hy
XX B5; hy
XX B5; hy
XX B100d;
XX B20-FEE
XX D20-FEE
XX D20-
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This invention describes a novel method for sorting single-stranded nucleic acids by isolation and hybridisation of nucleic acid pools, then reading out, where the nucleic acids are selectively bound using capture agents that are (a) immobilised on the surface of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonucleotides have a 5'-invariable anchor region, the complement of which is present at least once in each nucleic acid and a 3'-variable, discriminatory region that comprises all possible combinations of up to 10 nucleotides to allow binding of particular sorts of single stranded nucleic acids. The capture binding of particularly locked nucleic acids (LNA) and the anchor region comprises a sequence of 10-50, particularly 15-25, T residues. The capture oligonucleotides are biotinylated and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, metal, resin, gel, crystalline material and/or membrane, having semiconducting properties and especially in the form of a chip. Its surface is particularly a layer of (bio)molecular filaments and binding of single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADK01287 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AHR , MDR1 and/or MDR3 may also be used to screen individuals susceptibility to cancer. Polymorphic sequences in ADRB1 or \zeta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 21 BP; 3 A; 1 C; 4 G; 13 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28-FEB-2002; 2002DE-01008794.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             bridisation; capture oligonucleotide; pattern; mucosal; hair root;
nerve; germ cell; food additive; food supplement.
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17; Conser
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Pred. No. 2
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                 Query Match
Best Local :
                                                                                                                                                      stranded nucleic acids to the surface is (quasi)covalent, supramolecular, physical, stimulated by an electrical field or through a molecular sieve. The method is used (i) for analysis of patterns, especially in mucosal, hair root, blood, nerve or germ cells and (ii) for determining the activity of pharmaceuticals and/or nutritional compounds, e.g. food additives or supplements, especially minerals, trace elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and mixtures. The method provides rapid, inexpensive and reproducible representation of differences in pools of nucleic acids from cells. It allows imaging of the complete pattern of all nucleic acid in a cell, and can detect very small differences in the nucleic acid pool. Since the method is based on comparison of nucleic acid pools, not individual genes, matrix miniaturisation is possible. ADK01281-ADK01344 represent
l Similarity
17; Conserv
                                                                                                                                          probes used in the method of the invention.
                                                                                             21
                                                                                           BP; 1 A; 1 C; 1 G; 18 T; 0 U; 0 Other;
Conservative
                      89.5%;
<u>,</u>
                        Score 15.8;
Pred. No. 2
  Mismatches
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                      1519 TAAAAAAAAAAAAGTAAAA 1537
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blood; ss; hybridisation; capture oligonucleotide; pattern; mucosal; hair root; blood; nerve; germ cell; food additive; food supplement. Rat DNA microarray capture oligonucleotide #10. 06-MAY-2004 ADK01290; ADK01290 standard; DNA; 21 BP (first entry

DE10208794-A1 Rattus dB

28-FEB-2002; 2002DE-01008794. 28-FEB-2002; 2002DE-01008794.

Dieck HT, Норре н;

(DEGS ) DEGUSSA BIOACTIVES GMBH

WPI; 2003-714082/68

Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable constant regions

Example; Page 5; 8pp; German.

ARESULT 171
ARESULT 171
ARESULT 172
ARESULT 172
ARESULT ARESULT
XX
ARESULT
ARE This invention describes a novel method for sorting single-stranded nucleic acids by isolation and hybridisation of nucleic acid pools, then reading out, where the nucleic acids are selectively bound using capture agents that are (a) immobilised on the surface of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonucleotides have a 5'-invariable anchor region, the complement of which is present at least once in each nucleic acid and a 3'-variable, discriminatory region that comprises all possible combinations of up to 10 nucleotides to allow binding of particular sorts of single stranded nucleic acids. The capture agents are particularly locked nucleic acids (LNA) and the anchor region comprises a sequence of 10-50, particularly 15-25, T residues. The capture oligonucleotides are biotinylated and immobilised on a surface by

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ADX0134/c
ID ADX013
XX ADX013
AC ADX013
XX 06-MAY
XX 06-MAY
XX B8; hy
KW B8; hy
KW blood;
XX DE1020
XX DE1
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This invention describes a novel method for sorting single-stranded nucleic acids by isolation and hybridisation of nucleic acid pools, then reading out, where the nucleic acids are selectively bound using capture agents that are (a) immobilised on the surface of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonucleotides have a 5'-invariable anchor region, the complement of which is present at least once in each nucleic acid and a 3'-variable, discriminatory region that comprises all possible combinations of up to 10 nucleotides to allow
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
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blood; nerve; germ cell; food additive; food supplement.
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RESULT 173
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and const
                                                                                                                                   Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
                                                                                                                                                                                       WPI;
                                                                                                                                                                                                                                                                                         28-FEB-2002; 2002DE-01008794.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ss; hybridisation; capture oligonucleotide; pattern; mucosal; hair root;
blood; nerve; germ cell; food additive; food supplement.
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                                                                                                                                                                                                                                                            (DEGS ) DEGUSSA BIOACTIVES GMBH.
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17; Conserv
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This invention describes a novel method for sorting single-stranded nucleic acids by isolation and hybridisation of nucleic acid pools, reading out, where the nucleic acids are selectively bound using cag agents that are (a) immobilised on the surface of a solid matrix and

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Example; Page 5;

gpp;

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comprise variable and non-variable regions. The capture oligonucleotides have a 5' invariable anchor region, the complement of which is present at comprise and nucleic acid and a 3'-variable, discriminatory region that comprises all possible combinations of up to 10 nucleotides to allow binding of particular sorts of single stranded nucleic acids. The capture capture particularly locked nucleic acids (LNA) and the anchor region comprises a sequence of 10-50, particularly 15-25. T residues. The capture capture oligonucleotides are biotinylated and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, conducting properties and especially in the form of a chip. Its surface is particularly a layer of (bio)molecular filaments and binding of single stranded nucleic acids to the surface is (quasi)covalent, supramolecular, physical, stimulated by an electrical field or through a molecular single capture of pharmaceuticals and/or nutritional compounds, e.g. food captures. The method provides rapid, inexpansive and reproducible captures. The method provides rapid, inexpansive and reproducible captures. The method provides rapid, inexpansive and reproducible is captured in based on comparison of nucleic acid pools. Since the method is based on comparison of nucleic acid pools, not individual capture, antitix maintaturisation is possible. ADX01281-ADX01344 represent
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Best Local Similarity
                                                                 Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 21 BP; 2 A; 0 C; 0 G; 19 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Rat DNA microarray capture oligonucleotide #5.
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                                                                                                                                                             Boekenkamp D,
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                                                                                                                                                                                                                                                                        28-FEB-2002; 2002DE-01008794.
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Pred. No. 2.5e+02;
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                                                                                                                                                                                                                                                                                                                                                        ss; hybridisation; capture oligonucleotide; pattern; mucosal; hair root; blood; nerve; germ cell; food additive; food supplement.
                                                                                                                                                                  28-FEB-2002; 2002DE-01008794.
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Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable

WPI; 2003-714082/68 Boekenkamp D, (DEGS ) DEGUSSA BIOACTIVES GMBH.

Dieck

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RESULT 176
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ID ADK012
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POT 06-MAY
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KW 88; hy
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Best Local
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blood; nerve; germ cell; food additive; food supplement.
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                                        Boekenkamp D,
                                                                                                                                                                                              28-FEB-2002; 2002DE-01008794.
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17; Conserv
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                                    Dieck HT, Hoppe H;
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Pred. No. 2.5e+02;
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This invention describes a novel method for sorting single-stranded concluded acids by isolation and hybridisation of nucleic acid pools, then comprise variable the nucleic acids are selectively bound using capture comprise that are (a) immobilised on the surface of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonucleotides have a 5'-invariable anchor region, the complement of which is present at cell least conce in each nucleic acid and a 3'-variable, discriminatory region combination of up to 10 nucleotides to allow binding of particular sorts of single stranded nucleic acids. The capture agents are particularly locked nucleic acids (LNA) and the anchor region comprises a sequence of 10-50, particularly 15-25, T residues. The capture oligonucleotides are biotinylated and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, conducting properties and especially in the form of a chip. Its surface conducting properties and especially in the form of a chip. Its surface stranded nucleic acids to the surface is (quasi) covalent, supramolecular, compounds and binding of sligle stranded nucleic acids to the surface is (quasi) covalent, supramolecular, compounds and binding of sligle considerable and (i) for analysis of patterns, especially in mucosal, having semi-conductives or supplements, especially minerals, trace elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and conductives. The method provides rapid, inexpensive and reproducible and (ii) for analysis of patterns, especially and elements, corganic conductives. The method provides rapid, inexpensive and reproducible and compounds in a cell, and conductive broads in a cell, and can detect very small differences in the nucleic acid pools, since the capture probes used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable and constant regions.
Sequence 21 BP; 1 A; 1 C; 0 G; 19 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example; Page 5; 8pp; German
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-714082/68.
                                                         probes used in the method of the invention.
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ADKO1286/c
ID ADKO12
XX
AC ADKO12
XX
AC ADKO12
XX
DX Rat DN
XX
DX Rat DN
XX
DX Rat Dl
XX
COS Rattus
XX
DS Rattus
XX
OS Rattus
XX
OS Rattus
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OS Rattus
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AC
PN DE1020
XX
XX
PR D21-28-FEB
XX
XX
REFEB
XX
AC
PF 28-FEB
XX
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Best Local S
Matches 17
                                                                                                                                                                                   Rat DNA microarray capture oligonucleotide
                                                                                          DE10208794-A1
                                                                                                                   Rattus sp
                                                                                                                                             ss; hybridisation; capture oligonucleotide; pattern; mucosal; hair root;
blood; nerve; germ cell; food additive; food supplement.
                                                                                                                                                                                                                06-MAY-2004
                                                                                                                                                                                                                                          ADK01286;
                                                                                                                                                                                                                                                                   ADK01286 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                  1519 TAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                                     19 TAAAAAAAAAAAAAAAA 1
                                                                                                                                                                                                                                                                                                                                                                                                   1.1%;
Similarity 89.5%;
                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                             (first entry
                                                                                                                                                                                                                                                                    ВÞ
                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                    Score 15.8; DB 1;
Pred. No. 2.5e+02;
                                                                                                                                                                                                                                                                                                                                                                                        2;
                                                                                                                                                                                                                                                                                                                                                                                                                Length 21;
                                                                                                                                                                                                                                                                                                                                                                                         Indels
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28-FEB-2002; 2002DE-01008794.

28-FEB-2002; 2002DE-01008794

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ARESULT 178
ADKO1331/c
ID ADKO13
XX
AC ADKO13
AC ADKO13
XX
DT 06-MAY
XX
DE Rat DN
XX
DE Rat DN
XX
DE Rat UD
XX
CON
XX
DE RATUB
XX
DE DOOd;
XX
DE DOOd;
XX
DE DOOd
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XX
RATUB
XX
PD 04-SEP
XX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             that comprises all possible combinations of up to 10 nucleotides to allow comprises all possible combinations of up to 10 nucleotides to allow comprises are particularly locked nucleic acids (INA) and the anchor region comprises a sequence of 10-50, particularly 15-25. T residues. The capture capture oligonucleotides are biotinylated and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, conducting properties and especially in the form of a chip. Its surface is particularly a layer of (bio)molecular filaments and binding of single stranded nucleic acids to the surface is (quasi) covalent, supramolecular, cphysical, stimulated by an electrical field or through a molecular sieve. The method is used (i) for analysis of patterns, especially in mucosal, hair root, blood, nerve or germ cells and (ii) for determining the captures. The method provides rapid, inexpensive and reproducible representation of differences in pools of nucleic acids from cells. It callows imaging of the complete pattern of all nucleic acid mad reproducible method is based on comparison of nucleic acid pools, not individual capture probes used in the matched acid pools, not individual capture probes used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                   ss; hybridisation; capture oligonucleotide; pattern; mucosal; hair root;
blood; nerve; germ cell; food additive; food supplement.
                                                                                                                                                                                                                                                              06-MAY-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    comprise variable and non-variable regions. The capture oligonucleotides have a 5'-invariable anchor region, the complement of which is present a least once in each nucleic acid and a 3'-variable, discriminatory region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This invention describes a novel method for sorting single-stranded nucleic acids by isolation and hybridisation of nucleic acid pools, then nucleic acids are the nucleic acids are selectively bound using capture agents that are (a) immobilised on the surface of a solid matrix and (b)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
                                                                  DE10208794-A1
                                                                                                                                                                                                                   Rat DNA microarray capture oligonucleotide #51.
                                                                                                                                                                                                                                                                                                                                                   ADK01331 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 21 BP; 1 A; 0 C; 2 G; 18 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example; Page 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       and constant regions
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 15.8;
Pred. No. 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2.5e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 21;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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RESULT 179
ADK01289/c
ID ADK012
XX
AC ADK012
XX
DT 06-MAY
XX
DE Rat DN
XX
KW 88; hy
XX
XX
SX
XX
SX
XX
COS Rattus
XX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cc reading out, where the nucleic acids are selectively bound using capture comprise variable and non-variable regions. The capture oligonucleotides comprise variable anchor region, the complement of which is present at comprises all possible combinations of up to 10 nucleotides that comprises all possible combinations of up to 10 nucleotides to binding of particular sorts of single stranded nucleic acids. The capture comprises a sequence of 10-50, particularly 15-25, T residues. The capture comprises a sequence of 10-50, particularly 15-25, T residues. The capture comprises a sequence of 10-50, particularly 15-25, T residues. The capture conducting properties are biotinylated and immobilised on a surface by interaction with streptavidin. The material and/or membrane, having semiconducting properties and especially in the form of a chip. Its surface by rariaded nucleic acids to the surface is (quasi) covalent, supramolecular, computed nucleic acids to the surface is (quasi) covalent, supramolecular, computed nucleic acids to the surface is (quasi) covalent, supramolecular, computed nucleic acids to the surface is (quasi) covalent, supramolecular, computed nucleic acids to the surface is (quasi) covalent, supramolecular, computed nucleic acids for analysis of patterns, especially in mucosal, acids (amino, carboxylic or fatty acid) or their derivatives, salts and captures. The method provides rapid, inexpensive and reproducible captures in a computation of differences in pools of nucleic acid sfrom cells. It capture probes used on comparison of nucleic acid acid sin a cell, and capture probes used in the method of the horolage. Adxidual represent
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This invention describes a novel method for sorting single-stranded nucleic acids by isolation and hybridisation of nucleic acid pools, then reading out, where the nucleic acids are selectively bound using capture
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Boekenkamp D, Dieck HT,
                                                                                                                                                                                                           ADK01289;
                                                                                                                                                                                                                                                ADK01289 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 21 BP; 1 A; 1 C; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            capture probes used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example; Page 5; 8pp; German
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (DEGS ) DEGUSSA BIOACTIVES GMBH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28-FEB-2002; 2002DE-01008794.
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                                                                                                                                                                                                                                                                                                                                                                                  1519 TAAAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                                                         20 TAAAAAAAAAAAAAAAAA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                      l Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                      1.1%;
ilarity 89.5%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       G; 19 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 15.8; DB 1;
Pred. No. 2.5e+02;
0; Mismatches 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1; Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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ss; hybridisation; capture oligonucleotide; pattern; mucosal; hair root; blood; nerve; germ cell; food additive; food supplement.

Rat DNA microarray capture oligonucleotide

#9.

0

06-MAY-2004

(first

entry.

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RESULT 180
ADK012
XX
AC ADK012
XX
DT 06-MAY
XX
DE Rat DN
XX
KW 88; hy
                                                                                                                                                                                                                                                                         밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                        CC have a 5'-invariable anchor region, the complement of which is present at CC least once in each nucleic acid and a 3'-variable, discriminatory region that comprises all possible combinations of up to 10 nucleotides to allow CC binding of particular sorts of single stranded nucleic acids. The capture agents are particularly locked nucleic acids (INA) and the anchor region CC comprises a sequence of 10-50, particularly 15-25, T residues. The CC capture oligonucleotides are biotinylated and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, CC metal, resin, gel, crystalline material and/or membrane, having semiconducting properties and especially in the form of a chip. Its surface by conducting properties and especially in the form of a chip. Its surface cc stranded nucleic acids to the surface is (quasi) covalent, supramolecular, CC physical, stimulated by an electrical field or through a molecular sieve. The method is used (i) for analysis of patterns, especially in mucosal, cardity of pharmaceuticals and/or nutritional compounds, e.g. food cativity of pharmaceuticals and/or nutritional compounds, e.g. food cativity of pharmaceuticals and/or nutritional compounds, e.g. food cations imaging the method provides rapid, inexpensive and reproducible callows imaging to the complete pattern of all nucleic acid from cells. It can be sufficed to the method provides rapid, inexpensive and reproducible can detect very small differences in the nucleic acid pool. Since the complete pattern of all nucleic acid pool. Since the can be acid on the underly acid of the themselved of the humanic process.
                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
88; hybridisation; capture oligonucleotide; pattern; mucosal; hair root;
                                        Rat DNA microarray capture oligonucleotide #14.
                                                                                                                             ADK01294;
                                                                                                                                                                 ADK01294 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Boekenkamp D,
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                                                                                                                                                                                                                                                                                                   1519 TAAAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 probes used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                        21 BP; 2 A; 1 C; 0
                                                                                                                                                                                                                                                                           TARAAAAAAAAAAAAAA 1
                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5; 8pp; German.
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                                                                                                                                                                                                                                                                                                                                                                        1.1%;
                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                                                                        G; 18 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                            Score 15.8;
Pred. No. 2
                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                  8; LZ
2.5e+02;
2;
                                                                                                                                                                                                                                                                                                                                                                                             DB 1; Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                        0 Other;
                                                                                                                                                                                                                                                                                                                                                           Indels
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CC This invention describes a novel method for sorting single-stranded CC nucleic acids by isolation and hybridisation of nucleic acid pools, then CC reading out, where the nucleic acids are selectively bound using capture CC agents that are (a) immobilised on the surface of a solid matrix and (b) CC comprise variable and non-variable regions. The capture oligonucleotides CC have a 5'-invariable anchor region, the complement of which is present at CC least once in each nucleic acid and a 3'-variable, discriminatory region CC that comprises all possible combinations of up to 10 nucleotides to allow comprises a sequence of 10-50, particularly 15-25, T residues. The capture oligonucleotides are biotinylated and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, conducting properties and especially in the form of a chip. Its surface is particularly a layer of (bio)molecular filaments and binding of single stranded nucleic acids to the surface is quasi)covalent, supramolecular, physical, stimulated by an electrical field or through a molecular sieve. The method is used (i) for analysis of patterns, sepecially in mucosal, eativityes or supplaments, especially minerals, trace elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and conductives or supplaments, especially minerals, trace elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and conductives or supplaments, especially minerals, trace elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and conductives or supplaments, especially minerals, trace elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and conductives or supplaments, especially minerals, trace elements, organic method is based on comparison of nucleic acid pools, not individual conductives, mall differences in pools of nucleic acid pools. Since the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable and constant regions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example; Page 5; 8pp; German.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28-FEB-2002; 2002DE-01008794.
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Sequence 21 BP; 1 A; 0 C; 1 G; 19 T; 0 U; 0 Other;

0

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                                                    ADK01330/c
                                                             RESULT 181
                                                                                                                                          Matches
                                                                                                                                                            Query Match
                                         ADK01330 standard; DNA; 21
06-MAY-2004
                    ADK01330;
                                                                                                                   1519 ТАЛАЛАЛАЛАЛАГТАЛЛА 1537
                                                                                                19 TARARARARARARARARA 1
                                                                                                                                                    Similarity
                                                                                                                                         Conservative
(first entry)
                                                                                                                                                   1.1%;
                                          ВP
                                                                                                                                         0; Mismatches
                                                                                                                                                   Score 15.8; DB 1;
Pred. No. 2.5e+02;
                                                                                                                                                             Length 21;
                                                                                                                                           Indels
                                                                                                                                         0
                                                                                                                                         Gaps
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DNA microarray

capture oligonucleotide

#50.

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                                                                                                                                                              This invention describes a novel method for sorting single-stranded cc nucleic acids by isolation and hybridisation of nucleic acid pools, then cc reading out, where the nucleic acids are selectively bound using capture capture that are (a) immobilised on the surface of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonuclectides have a 5'-invariable anchor region, the complement of which is present at cleast once in each nucleic acid and a 3'-variable, discriminatory region comparise once in each nucleic cacid and a 3'-variable, discriminatory region comparises all possible combinations of up to 10 nucleotides to allow binding of particularly locked nucleic acids (LNA) and the anchor region comprises a sequence of 10-50, particularly 15-25, T residues. The capture oligonucleotides are biotinylated and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, conducting properties and especially in the form of a chip. Its surface stranded nucleic acids to the surface is (quasi) covalent, supramolecular, compounds, root, blood, nerve or germ cells and (or through a molecular sieve. The method is used (i) for analysis of patterns, especially in mucosal, chair root, blood, nerve or germ cells and (ii) for determining the activity of pharmaceuticals and/or nutritional compounds, e.g. food cardistives or supplements, especially minerals, trace elements, organic caids (amino, carboxylic or fatty acid) or their derivatives, salts and caids (amino, carboxylic or fatty acid) or their derivatives, salts and caids (amino, carboxylic or fatty acid) or their derivatives, salts and caids (amino, carboxylic or fatty acid) or their derivatives, salts and caids (amino, carboxylic or fatty acid) or their derivatives, salts and caids (amino, carboxylic or fatty acid) or their derivatives, salts and caids (amino, carboxylic or fatty acid) or their derivatives, salts and carboxylic or fatty acid, in acid, pool acid, from cell, and carboxylic acid sold on 
                                                                                 Matches
                                                                                                    Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sorting single-stranded nucleic acid, patterns and screening active agents,
                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example; Page 5; 8pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              and constant regions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-714082/68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Boekenkamp D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-FEB-2002; 2002DE-01008794.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28-FEB-2002; 2002DE-01008794.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ss; hybridisation;
                                        1519
20
                                                                               17; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             nerve;
                                                                                                                                                                                                     probes used in the method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DEGUSSA BIOACTIVES GMBH.
                                      TAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                            21 BP; 1 A; 0 C; 1 G; 19 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           germ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Dieck HT, Hoppe H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           capture oligonucleotide; pattern; mucosal; hair root;
cell; food additive; food supplement.
                                                                                                1.1%;
                                                                             0,
                                                                                                    Pred.
                                                                                                                      Score
                                                                                 Mismatches
                                                                                                                                                                                                       of the invention.
                                                                                                    No. 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               useful for analyzing expression uses capture agent with variable
                                                                                                  2.5e+02
                                                                                                                      DB 1; Length 21;
                                                                                 Indels
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RESULT 182 ABD25933 ID ABD259

ABD25933

standard; DNA;

21

Sequence

21

BP;

17

A; 0

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4 T; 0 U;

0 Other,

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Comprising oligonucleotides, effective for alleviating comprising oligonucleotides, effective for alleviating composition, respiratory tract inflammation, allergies and crediting adenosine sensitivity, levels of adenosine (A) or (A) receptors, considered in a manufaction or hyposecretion, when administered to a mammal. The coligonucleotides are derived from a gene encoding or regulating considered dysfunction or cancer and can be anti-sense to the corresponding mRNA. Construction of a target polypeptide associated with lung airway or lung constructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, construction has antiallergic, antiinflammatory, antiasthmatic, construction has antiallergic, antiinflammatory, antiasthmatic, composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The pulmonary obstruction, allergies and/or bronchocomstriction and/or lung pulmonary obstruction, allergies and/or bronchocomstriction and/or lung pulmonary obstruction, allergies and/or surfactant hypoproduction are associated with a disease, pulmonary antiastation respectation, constructive pulmonary disease, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary to the anti-sense oligos corresponding to the middless present in the target RNA serves to prevent the breakdown of the oligonucleotides into products that free adenosine into the system encorresponding to the oligonucleotides and effects due to it.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antisthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 15; SEQ ID NO 4945; 763pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        bronchodilating agent.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23-APR-2002; 2002WO-US013143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      pulmonary transplantation rejection; ss;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AA505075-derived oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Miller
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (EPIG-) EPIGENESIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24-APR-2001; 2001US-0286036F
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Tang
                                         unwanted
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L, Shahabuddin
                                         effects
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RESULT 184
ADQ30708/c
ID ADQ30708 standard; D:
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AC ADQ30708;
XX
DT 23-SEP-2004 (first o
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ADQ30710
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                                                                                                                                                                     Query Match
Best Local Similarity
Matches 17; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                    The present invention relates to a device that has at least one surface that contacts tissue and/or liquids of the human or animal body and is at least partly coated with a substance that mediates binding of biological materials. The new feature is that this substance is an aptemer. The device is particularly an implant, e.g. a stent, vascular prosthesis, heart valve, joint etc., but may also be a component of an extracorporeal circulation system, a nanomaterial for tissue engineering and vascular surgery, a catheter, contact lens, storage device for blood etc., also a bioreactor for isolation and culture of selected cell types, for production of substances or for growing organ replacements. The present sequence is an aptamer suitable for use in the device of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                             Device coated with aptamers for binding specific biological materials, useful e.g. as stent or component of extracorporeal circulation system also new aptamers specific for endothelial precursor cells.
                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 15; SEQ ID NO 4; 31pp; German.
                                                                                                                                                                                                                                Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Schluesener H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17-DEC-2002; 2002DE-01058924.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    aptamer; ss;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Device with substance
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10-DEC-2003; 2003WO-EP013989
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                                                                                                                                                426 GGCGGCTGCGGCGCCGGCG 444
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                                                                                                                                                                                                                              21 BP; 0
                                                                                                                       TTAAAAAAAAAAAAAAA 21
                                                                                                                                                                           Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   implant; biological material adhesion; bioreactor.
  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Wendel
                                                                                                                                                                                                                                A; 7 C; 14 G; 0 T; 0 U; 0 Other;
                                                      DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA;
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                                                                                                                                                                                      Score 15.8;
Pred. No. 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           adhesion of biological material aptamer
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Pred. No. 2
                                                                                                                                                                            Mismatches
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                                                                                                                                                                                         2.5e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2.5e+02;
                                                                                                                                                                                                     DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                    Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 21;
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                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gape
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RESULT 185
ADF17373
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Best Local S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to a device that has at least one surface that contacts tissue and/or liquids of the human or animal body and is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Device coated with aptamers for binding specific biological materials, useful e.g. as stent or component of extracorporeal circulation system also new aptamers specific for endothelial precursor cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI;
25-JUN-2001;
02-JUL-2001;
                                                                    19-JUN-2002;
                                                                                                                     03-JAN-2003
                                                                                                                                                                 WO2003000928-A2
                                                                                                                                                                                                               Unidentified.
                                                                                                                                                                                                                                                         vaccine; gene
                                                                                                                                                                                                                                                                                 cell surface molecule; malignant cell line; cytostatic; immunostimulant;
                                                                                                                                                                                                                                                                                                                                Small cell lung cancer cell line associated primer,
                                                                                                                                                                                                                                                                                                                                                                                                                               ADF17373;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADF17373 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Schluesener H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10-DEC-2003; 2003WO-EP013989
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                                                                                                                                                                                                                                                                                                                                                                                 12-FEB-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
2001DK-00000992.
2001US-0301818P.
                                                                    2002WO-IB003534
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                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                         therapy; premalignant;
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Pred. No. 2.
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                                                                                                                                                                                                                                                              cancer;
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                                                                                                                                                                                                                                                         binding partner;
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DT 04-JAN
XX OF AAG647
XX O
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cc molecules expressed at different levels in malignant cells. The method cc involves providing at least 3 malignant cell lines and 3 total RNA cc samples derived from normal tissue, comparing expression of mRNA in cell cc lines and normal tissue, comparing expression of mRNA in cell cc lines and normal tissue, identifying nucleic acid sequences for a cc difference in amount of mRNA expressed in cell lines and normal tissue, can be cell surface molecules on the cell surface molecules. The cell surface molecule compositions have cytostatic and cc immunostimulant activities. The cell surface molecule proteins can be cc used to create a vaccine and their encoding nucleotides used in gene cell surface molecules, is useful for the preparation of a targeting ence cell surface molecules. The targeting partner capable of associating with the cc complex, comprising a binding partner capable of binding the cell surface molecules. The targeting partner capable of binding the cell surface includes cancer selected from melanoma, brain tumour (e.g. glioblastoma, concludes cancer selected from melanoma, brain tumour (e.g. glioblastoma, concludes cancer selected from melanoma, brain tumour (e.g. glioblastoma, concerned lung cancer (e.g. small cc cancer, cervix cancer, uterine cancer, cranicopharingioma, pineal tumour, cancer, cervix cancer, uterine cancer, ovarian cancer (NSCLC)), prostate cancer, rectum cancer and bladder cancer. The targeting complex is useful for the preparation of a medicament for the targeting complex is useful candividual in need of it. This polynucleotide sequence represents an coligoused in the exemplification of the invention.
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                                                                                                                                                        antisense; 2',5'-tetraadenylate; 2-5A dependent RNase activator; RNA cleavage; antivital therapy; chimeric molecule; PKR; protein synthesis regulation; phosphorylation; eIF-2alpha; eukaryotic translation initiation factor; ss.
                                                                                                                                                                                                                                                                                                                                                                                   25-MAR-2003
04-JAN-1995
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   misc_feature
                                                                                              Synthetic
                                                                                                                                                                                                                                                                                                                     2',5'-linked tetraadenylate-anti(dT)18 oligonucleotide chimeric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAQ64724 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
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17; Conserv
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(first entry)
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Pred. No. 2.4e+02;
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Best Local 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This sequence was used to determine whether 2-5A-antisense chimeric molecules are inhibitory to cell growth. The molecules AAQ64709, AAQ64711 and AAQ64724 all lacked cytotoxicity. In the novel 2-5A-antisense oligonucleotide chimeric molecules, the antisense region targets the chimeric molecule to a particular region of RNA to be specifically cleaved and the 2',5'-linked tetraadenylate tail activates the 2-5A RNase. Typical applications are treatment of viral infections (esp. for cleavage of an RNA virus genome), cancer; leukaemia, cardiovascular disorders (e.g. restenosis after angioplasty), genetic disorders, osteoarthritis or rheumatoid arthritis. (Updated on 25-MAR-2003 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cancers, etc. - by using of 2-5A dependent RNase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Specific cleavage of RNA, cancers, etc. - by using
                                         Human; transforming growth factor beta 1; TGF-beta1; phosphorothioate; antisense oligonucleotide; EGR; early growth response; cytostatic; gene therapy; anti-metastatic; tumour; cancer; probe; ss.
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17-SEP-1993;
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/label= 2',5'-linked tetraadenylate
/note= "nucleotides Tinked through |
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/note= "nucleotides Tinked through th
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              English.
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Pred. No. 2.7e
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linked by two 1,4-butanediol
h phosphodiester bonds"
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Best Local S
Matches 18
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                                                    16-NOV-1995;
15-NOV-1996;
                                                                                                                                                                                     21-NOV-2000
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                                                                                                                                                                                                                                                                                                                                               genetic defect; cystic fibrosis;
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Pred. No. 2.
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                                                                                    Modulating an immune response in an animal, useful for the prophylactic or therapeutic treatment of bacterially-induced septic shock, by modulating colony stimulating factor-1 (CSF-1) activity in an animal.
                                                                                                                                                                                                                                                                                                                   Mue
                                                                                                                                                                                                                                                                                                                                                      Mouse; immunomodulator; antibacterial; immunosuppressive; CSF-1; colony stimulating factor-1; septic shock; TLR; toll-like receptor; interleukin-12; IL-12; HPRT; hypoxanthine phosphoribosyl transferase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention relates to DNA for a promoter and an L1 cassette sequence having a core retrotransposon element. The invention is useful for random insertion of a heterologous or homologous DNA sequence into cell genome, and for correction of a genetic defect in the cell into which the insertion is made. Genetic defects which may be corrected includes cystic fibrosis, mutations in the dystrophin gene, genetic defects associated with blood clotting and other genetic defects
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNAc comprising a promoter P and an L1 cassette sequence having a core retrotransposon element, useful for random insertion of a heterologous homologous DNA sequence into a cell genome and for correcting genetic
                                                           Example;
                                                                                                                                     WPI; 2003-381587/36.
                                                                                                                                                                                                                03-OCT-2001; 2001AU-00008071.
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                                                                                                                                                                                                                                                                                                                                                                                                        primer for detecting murine TLR6 expression.
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                                                          Page 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   standard; DNA;
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Pred. No. 2.7e+02;
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The invention relates to modulating an immune response in an animal. The method of the invention comprises modulating colony stimulating factor-1 (CSF-1) activity in order to modulate the immune response of the animal. Also disclosed is a pharmaceutical composition comprising a modulator of

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                                                                          The invention describes a method of creating an insertional mutation in the germ line of an animal by introducing into an animal a nucleic acid molecule comprising a germ line specific promoter. The method is useful for generating a mutation in an offspring of an animal, or for isolating a nucleic acid from a genome of an offspring of an animal. The method may also be used to correct genetic defects in animals, especially humans. The nucleic acid is useful for generating mutations in a cell for assessing the frequency with which selected cells under go insertional mutagenesis for the generation of transgenic animals. This sequence represents an exemplary cleavage site of the endonuclease encoded by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gene therapy; insertional mutation; germ line specific promoter; mutation generation; transgenic animal; poly A element; non-LTR; retrotransposon; long terminal repeats; L1; EN domain; endonuclease; cleavage site; ds.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Creating an insertional mutation in the germ line of an animal, useful for generating a mutation in an offspring of an animal, comprises introducing into an animal a nucleic acid molecule comprising a germ lineroducing into an animal a nucleic acid molecule comprising a germ lineroducing into an animal a nucleic acid molecule comprising a germ lineroducing into an animal a nucleic acid molecule comprising a germ lineroducing into an animal a nucleic acid molecule comprising a germ lineroducing into an animal and a nucleic acid molecule comprising a germ line of an animal and a nucleic acid molecule comprising a germ line of an animal and animal and a nucleic acid molecule comprising a germ line of an animal animal
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97US-00847844.
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Matches
                                                            identifying or analysing and comparing RNA molecules and or sequences expressed in different cells, tissues and or samples. The invention is also useful in detecting disease (e.g. cystic fibrosis, muscular dystrophy or diabetes), mutation detection, gene discovery, gene mappi (molecular haplotyping), agricultural research, and assessment of predisposition for cancers, e.g. prostate, breast, lung, colon or ovar cancer. The present sequence is a junction-specific cDNA primer. This sequence is used to illustrate the method of invention.
                                                                                                                                                                                                                                                                                                                       The present invention relates to composition and method for amplifying RNA sequences. The method involves synthesising first strand cDNA molecules from RNA molecules, circularising the first strand and replicating the circularised first strand cDNA molecules using rolling circle replication. The method is useful for producing nucleic acid molecules corresponding to RNA molecules in an RNA sample, for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cystic fibrosis; muscular dystrophy; diabetes; gene discovery; gene mapping; molecular haplotyping; agricultural research; prostate cancer; breast cancer; lung cancer; colon cancer; ovarian cancer; human; adenorectal carcinoma; primer; ss.
      Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Amplifying RNA sequences, useful in detecting diseases or mutation, comprises synthesizing first strand cDNA, circularizing first strand cDNA molecules by rolling circle cDNA, and replicating the circularized cDNA molecules by rolling circle
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Junction-specific poly(A) cDNA primer.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (ABAR/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
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          22
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          BP;
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      0 A;
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סי
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      0 C; 0 G;
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      22 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22
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                                                                                                                                         colon or ovarian
                                                                                                                                                                                                     gene mapping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
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RESULT 192
AAX69796/c
ID AAX697
XX Vascul
KW Vumour
KW Lumour
KW Colim
XX Lumour
PR (CHIR
RESULT 193
AAA25445/c
ID AAA254
XX AAA254
AC AAA254
XX DT 19-JUL
XX Oestro
XX Oestro
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             synthesis, expression and/or stability of a mRNA encoding 1 or more receptors of vascular endothelial growth factor (VEGF). A patient (preferably human) having a condition associated with the level of the fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing receptor (KDR) and/or foetal liver kinase i (flk-1) (e.g. tumour angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be treated by administering the nucleic acid molecule or the expression vector to the patient. AAX67275 to AAX75752 represent specific examples
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA stability - useful for treating e.g. tumour angiogenesis, psoriasis, rheumatoid arthritis, etc., in a human patient.
   Oestrogen receptor; c-raf; k-ras; bcl-2; ribozyme; cleavage;
                                                          Oestrogen receptor hammerhead ribozyme target sequence SEQ ID NO:1943
                                                                                                                        19-JUL-2000
                                                                                                                                                                                      AAA25445;
                                                                                                                                                                                                                                          AAA25445 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          or nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention describes nucleic acid molecules which modulate the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 4; Page 79; 218pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                26-OCT-1995;
11-JAN-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;
tumour anglogenesis; psoriasis; rheumatoid arthritis; ocular disease;
fms-like tyrosine kinase 1; kinase insert domain containing receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human flt1 VEGF receptor hammerhead ribozyme substrate #1091
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28-JUL-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (RIBO-) RIBOZYME PHARM INC. (CHIR ) CHIRON CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 foetal liver kinase 1; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Vascular endothelial growth
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                                                                                                                                                                                                                                                                                                                                                                                              17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAAAAAAAAAAGTAAA 1536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17 BP; 1 A; 2 C; 0 G; 0 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mcswiggen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                     (first entry)
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96US-00584040
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          molecules from the present invention
                                                                                                                                                                                                                                          DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1.1%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                factor receptor; VEGF receptor; flt-1; flk-1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 15.4;
Pred. No. 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3.8e+02;
1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 17;
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RESULT 194
AAF02226/c
ID AAF02226 standard; DNA; 17
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                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention describes nucleic acids (A) that interact stably CC with a target sequence and contain at least one phosphoro(di)thioate CC link, having endonuclease activity. (A), and more generally any catalytic nucleic acid (A) that modulates expression of the oestrogen receptor CC gene, are used to treat cancer (particularly of breast or endometrium), CC in vivo or by transforming cells ex vivo and implanting treated cells, or CC gecause of the high selectivity for targeted RNA, (A) can also be used to correlate inhibition of gene expression with alterations in phenotype, CC particularly for identification of therapeutic targets, and as research CC reagents (for RNA, in the same way that restriction endonucleases are CC used with DNA). The combination of modifications in (A) improves CC resistance to nucleases, binding affinity and/or activity. AAA23503 to AAA24747 represent oestrogen receptor hammerhead ribozyme sequences. and AAA26107 to AAA2618 represent their corresponding target sequences sequences, and AAA26107 to AAA2618 represent their corresponding target target sequences. AAA26219 to AAA26218 represent other ribozyme sequences and cantisense oligonucleotides used in the exemplification of the present convenience of invention.
                                                                                                                                                                                                                                                                                                             Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     hammerhead ribozyme; hairpin ribozyme; antisense oligonucleotide; gene expression modification; cancer; phosphorothioate; endonuclease; anticancer; breast cancer; endometrium cancer; ss.
                             Ribozyme; erythropoietin; granulocyte colony stimulating factor;
                                                              Hammerhead
                                                                                              16-FEB-2001
                                                                                                                               AAF02226;
                                                                                                                                                                                                                                                                                                                                                                               Sequence 17 BP; 1 A; 0 C; 1 G; 15 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   used to treat cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2000-013248/01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matulic-Adamic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Thompson JD, Reynolds M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20-APR-1998;
23-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-OCT-1999
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                                                                                                                                                                                                                                                                                                                                Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 nucleic acids that interact, and optionally cleave, target sequences,
                                                                                                                                                                                                                                                                              1520 AAAAAAAAAAAAGTAAA 1536
                                                                                                                                                                                                                                                 17
                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Page 79; 148pp; English.
                                                              ribozyme substrate
                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Beigelman L, Mcswiggen JA,
Zwick M, Jarvis T, Woolf T,
                                                                                             (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98US-0082404P.
98US-00103636.
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                                                                                              entry
                                                                                                                                                                                                                                                                                                                              94.1%;
                                                                                                                                                                                                                                                                                                                                              1.1%;
                                                                                                                                                              ВP
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                                                                                                                                                                                                                                                                                                               Score 15.4; DB 1; Length 17; Pred. No. 3.8e+02; O; Mismatches 1; Indels
                                                               #521.
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Haeberli
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interferon alpha;

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RESULT 195
ABZ65528
ID ABZ655
XX ABZ655
XX ABZ655
XX 21-MAR
DT 21-MAR
XX Human;
KW Human;
KW enzyma
KW enzyma
KW anti-r
OS Homo s
XX Homo s
YX WO2002
XX D5-DEC
XX 29-MAY
PR 06-JUN
PR 10-SEF
XX RIBO-
XX MCSWig
DR WPI; 2
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Best Local
                                                                            29-MAY-2001;
06-JUN-2001;
10-SEP-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention relates to enzymatic and antisense nucleic acid molecules that act as inhibitors of the expression of repressor genes encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription factor gene, IRF-2 and/or the CAATT Displacement Protein (CDP). Inhibition of the repressors removes prevents inhibition (and consequently increases expression of) genes involved in the production of erythropoietin, granulocyte colony stimulating factor protein and
                                                                                                                                                                                                                                                     Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;
enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Enzymatic and antisense nucleic acid inhibition of repressor genes, useful for producing e.g. granulocyte colony stimulating factor protein,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo
                           Mcswiggen
                                                                                                                                                                                                                                       anti-rheumatic; cancer; AIDS; ss.
                                                                                                                                                                                                                                                                                                                                                                          ABZ65528 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 17 BP; 0 A; 8 C; 8 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 37; Page 67; 164pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11-APR-2000; 2000WO-US009721.
                                                                                                                                  29-MAY-2002; 2002WO-US016840.
                                                                                                                                                             05-DEC-2002.
                                                                                                                                                                                                                                                                                                                       21-MAR-2003
                                                                                                                                                                                                                                                                                                                                                 ABZ65528;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    useful for producing e.g. granulocyte interferon alpha and erythropoietin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (RIBO-) RIBOZYME PHARM INC.
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                                                      (RIBO-) RIBOZYME PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          interferon alpha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local
    2003-140484/13
                                                                                                                                                                                                               sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   646 GCCGTGCCGAGCCGGCC 662
                                                                                                                                                                                                                                                                                             HER2 DNAzyme
                                                                                                                                                                                                                                                                                                                                                                                                                                          17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                          GCCGGGCCGAGCCGGCC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Zwick M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                              2001US-0294140P.
2001US-0296249P.
2001US-0318471P.
                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99US-0129390P
                                                                                                                                                                                                                                                                                              substrate
                                                                                                                                                                                                                                                                                                                                                                           RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pavco P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        94.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1.1%;
                                                                                                                                                                                                                                                                                                                                                                           ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred. No.
0: Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
                                                                                                                                                                                                                                                                                             #985.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 15.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mcswiggen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3.8e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1; Length 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     e
f
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acid molecule or an enzymatic nucleic acid molecule, that modulates expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ra human immunodeficiency virus (HIV) or a component of HIV. The nucleic acid molecule of the invention has cytostatic, anti-HIV, and anti-rheumatic activity. The nucleic acid molecules are useful for reducing HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are also useful for treating breast, ovarian, colorectal, lung, prostate, bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequence shown in ABZ59889 - ABZ62216, ABZ64544 - ABZ65531, ABZ66520 - ABZ66524, ABZ66530 - ABZ66585 represent substrate/target sequences for the human
                                                                                                                                                                                                                                                                                                                                                                                               Novel short interfering RNA and enzymatic nucleic acid useful for treating cancer, modulates the expression of a nucleic acid encoding HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.
Sequence 17
                                                                                                                                                                                                                                                                                                                                                 Claim 4; Page 152; 185pp;
                                                ribozymes of
                                                                                                                                                                                                                                                                                                        invention
  BP; 1 A; 0 C; 2
                                                  the
                                                                                                                                                                                                                                                                                                      relates to a novel short interfering RNA (siRNA) nucleic
                                                  invention
                                                                                                                                                                                                                                                                                                                                                   English.
  G; 0 T; 14 U; 0 Other;
                                                                                                prostate,
The sequences
- ABZ66524,
                                                                                                                                                                                                                                                               N-Ras,
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Matches Local Match 1248 Similarity
3; Conserv TTTGTTTTGTTTTTTAA 1264 UUUGUUUUGUUUUUUUN 17 Conservative 1.1%; 13; Mismatches Score 15.4; Pred. No. .8e+02; B Length Indels 17; 0 Gaps 0

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RESULT 196
ACD61808
ID ACD618
XX ACD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RNA stability; RNA expression; RNA synthesis; antisense; enzymatic nucleic acid; hammerhead ribozyme; DNAzyme; inozyme; zinzyme; amberzyme; G-cleaver ribozyme; decoy molecule; aptamer; amberzyme; etranscriptase; Enhancer I region; viral replication; HBV reverse transcriptase; Enhancer I region; viral replication; degenerative; disease state; HBV infection; HCV infection; cirrhosis; liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HCV minus strand DNAzyme substrate sequence #231.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACD61808
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hepatitis C virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          virucide; antiinflammatory; substrate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ВP
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26-MAR-2001; 2001US-00817879.
08-JUN-2001; 2001US-00877478.
08-JUN-2001; 2001US-0296876P.
24-CCT-2001; 2001US-0335059P.
05-DEC-2001; 2001US-0337055P.

17-OCT-2002.

WO200281494-A1.

26-MAR-2002; 2002WO-US009187

(RIBO-) (BLAT/) (MACE/)

RIBOZYME BLATT L.

PHARM

INC.

(MCSW/)

MCSWIGGEN J. MORRISSEY D. MACEJAK D.

PAVCO P. LEE P.

LEEP/

DRAPER K. ROBERTS E.

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RESULT 197
ADH7055/C
ID ADH705
XX
AC ADH705
XX
AC ADH705
XX
DT 25-MAR
XX
human;
KW degene
KW hypere
KW hypere
KW allerg
KW allerg
KW type illerit
KW tipe ille
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ঠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to nucleic acid molecules which modulate CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or Hepatitis B virus (HCV) and the virus (HCV) or CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense companies, price and enzymatic nucleic acids such as hammerhead ribozymes, DNAzymes, and enzymes, zinzymes, amberzymes, and G-cleaver ribozymes, Also disclosed CC are nucleic acid decoy molecules and gramers that bind to HBV reverse CC transcriptase and/or HBV reverse transcriptase primer sequences, as well CC as oligonucleotides that specifically bind the Enhancer I region of HBV CC DNA. The nucleic acids may be used to modulate the expression of HBV CC genes and HBV viral replication. Also disclosed is a method for screening compounds and/or potential therapies directed against HBV, and compounds that modulate the expression and/or replication of HCV. The compounds and CC methods of the invention are useful for the treatment of degenerative and CC disease states related to HBV and HCV infection, replication and gene CC carcinoma. The present sequence represents a substrate for one of the HCV converse of the HCV converse of the HCV converse 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Blatt L,
Draper K,
                                                                                                                                                                                                                                                                                                                                                                                  human; T-cell associated disease; Vbeta; autoimmune disease; degenerative nervous system disease; graft versus host disease; hypersensitivity disease; infectious disease; neclarosis; addison's disease; atrophic gastritis; degenerative nervous system disease; multiple sclerosis; alzheimer's disease; hypersensitivity disease; type I hypersensitivity; Goodpasture's syndrome; allergy; type II hypersensitivity; Goodpasture's syndrome; type IV hypersensitivity; leprosy; infections disease; viral infection; HIV; fungal infection; Candida; parasitic infection; schistosome; filaria; bacterial infection; Mycobacterium, neoplastic disease; lymphoproliferative disease; leukaemia; lymphoma; cancer; brain cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel compound useful for hepatocellular carcinoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADH70550 standard; DNA; 17 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 1; Page 279; 387pp; English
                                                                                                                    17-OCT-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human Vbeta gene repeat sequence #340.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-MAR-2004 (first entry)
                                            05-MAR-1999;
                                                                                                                                                                                                 US2002150891-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNAzyme or minus strand DNAzyme sequences disclosed in the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local
                                                                                                                                                                                                                                                                          sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          960 CICGCGCGCCCCGGCG 976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 Similarity
                                                                                                                                                                                                                                                                                                                                                      cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CUCGCGCGGCACCGGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Macejak D,
Roberts E;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1.1%;
ilarity 88.2%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP; 1 A;
                                                                                                                                                                                                                                                                                                                                                          dB.
                                            9908-00263959
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8 C; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      for treating cirrhosis, liver failure, oma, or condition associated with hepatitis C virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mcswiggen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               G; 0 T; 1 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 15.4;
Pred. No. 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ç
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pavco P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Lee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                סי
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18-DEC-2000; 2000US-00740332 18-DEC-2000; 2000US-00740332.

(BLAT/) BLATT L.

Hepatitis C virus.

US2003125270-A1

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RESULT 198
AD185262
XX
AD1852
XX
AC AD1852
XX
DT 03-JUN
XX
DE HCV DN
XX
HCV in
XX
HCV in
XX
US2003
XX
US2003
XX
PN US2003
XX
PN US2003
XX
PD 03-JUL
XX
PF 18-DEC
XX
PA 18-DEC
XX
PA (BLAT/
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a kit for diagnosing and treating T-cell CC associated diseases which comprises a panel of nucleic acid primers CC specifically priming and allowing amplification of each Vbeta gene, CC VbetaRNA or cDNA. The kit is useful for diagnosing organ transplant CC rejection and diagnosing and treating T-cell associated diseases CC including autoimmune diseases, degenerative nervous system diseases. CC graft versus host disease, hypersensitivity diseases, infectious diseases CC and neoplastic diseases. Autoimmune diseases include Addison's diseases and neoplastic diseases. Autoimmune diseases include Addison's diseases (CC atrophic gastritis. Degenerative nervous system diseases include multiple CC sclerosis and Alzheimer's disease. Hypersensitivity diseases include Type CC intypersensitivities such as contact with allergens that lead to CC allergies, Type II hypersensitivities such as those present in CC Goodpasture's syndrome and Type IV hypersensitivities such as those caused by the yeast genus Candida, parasitic infections such as those caused by the yeast genus Candida, parasitic infections such as those caused by Schistosomes, filaria and bacterial infections such as those caused by Schistosomes, filaria and bacterial infections such as those caused by CC such as leakaemias, lymphomas and cancers such as cancer of the brain, CC breast. The present sequence represents a Vbeta gene repeat sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; SEQ ID NO 744; 164pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kit for diagnozing and treating T-cell associated diseases e.g. autoimmune, degenerative nervous system and infectious disease, comprises nucleic acid primers specifically priming and allowing amplification of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19-SEP-1994;
19-SEP-1995;
                                                                                                                                                                                                                                                                                                                  03-JUN-2004
                                                                                                                                                                                                                                                                                                                                                      ADI85262;
                                                                                                                                                                                                                                                                                                                                                                                         ADI85262 standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Vbeta gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2004-059052/06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hood LE, Rowen L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ROWE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      T GOOH (/GOOH)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ocal
                                                                                                                                                                                                                    enzymatic nucleic infection; type I
                                                                                                                                                                                                                                                                          DNAzyme substrate sequence #2508.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1302 TCTATTTTTTTATTTT 1318
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ROWEN L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 15 A; 0 C; 0 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          94US-00309335.
95US-00531241.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1.1%;
                                                                                                                                                                                                                    acid; RNA cleavage; hepatitis C virus; HCV;
interferon; DNAzyme.
                                                                                                                                                                                                                                                                                                                                                                                           ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 15.4; DB 1; Pred. No. 3.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
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RESULT 199
AAQ20109/c
ID AAQ201
XX AAQ201
XX O1-APR
XX Cross-
XX deoxyr
KW tumour
XW cross-
XX Synthe
XX Key
FT modifi
FT modifi
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to an enzymatic nucleic acid molecule which specifically cleaves RNA derived from hepatitis C virus (HCV), in which the binding arms of the enzymatic nucleic acid molecule comprises sequences complementary to any of the defined substrate sequences given in the specification. The nucleic acid molecule may be administered for the treatment of HCV infections, especially in combination with type I interferons. The present sequence represents a HCV DNAzyme substrate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Enzymatic nucleic acid molecules which specifically cleave RNA derived from hepatitis C virus (HCV), useful for the treatment of HCV infections, especially in combination with type I interferon therapy.
                                                                       25-MAY-1990;
14-JAN-1991;
                                                                                                                                                                                                                                                                                      modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                 cross-linking group; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   deoxyribonucleic acid; major groove; ethanoamino group; tumour necrosis factor; receptor; messenger RNA; aziridinylcytosine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cross-linking oligomer 943 to target human TNF Receptor mRNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-APR-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAQ20109
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   Matteucci MD,
                                                                                                                             25-MAY-1990;
                                                                                                                                                                12-DEC-1991
                                                                                                                                                                                                   WO9118997-A
                                                                                                                                                                                                                                                                                                                                                            modified_base
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(ROBE/)
(PAVC/)
(MACE/)
                                      (GILE-) GILEAD
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ROBERTS E.
PAVCO P A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MACEJACK D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTCGCGCGGCCCCGGCG 976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CUCGCGCGCACCGGCG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
   Krawczyk S;
                                        SCIE INC
                                                                       90US-00529346.
91US-00640654.
                                                                                                                             90US-00529346
                                                                                                                                                                                                                                                      /mod_ba
                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                            mod_base=
                                                                                                                                                                                                                                      'note= "N4N4-ethanocytosine"
                                                                                                                                                                                                                                                                                                          note=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA;
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                                                                                                                                                                                                                                                      base= OTHER
                                                                                                                                                                                                                                                                                                          "N-methyl-8-oxo-2',-deoxyadenine"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 15.4; DB 1;
Pred. No. 3.8e+02;
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   RESULT 200
AAQ201108/c
ID AAQ201
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XX Cross-
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XX 
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Best Local :
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   The oligomer was designed to target human TNF receptor mRNA beginning at nucleotide 2354 and to covalently cross-link to the target via the N4N4-ethanocytosine group. See also AAQ20109
                                                                                                                                                                                                                                                                                         25-MAY-1990;
14-JAN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cross-linking
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-APR-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAQ20108;
                                                                         Example 4; Page 27; 42pp;
                                                                                                              infections
                                                                                                                                                                                                                     Matteucci MD,
                                                                                                                                                                                                                                                                                                                                             25-MAY-1990;
                                                                                                                                                                                                                                                                                                                                                                                  12-DEC-1991.
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                                                                                                                                                                                                                                                        (GILE-) GILEAD
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deoxyribonucleic acid; major groove; ethanoamino group; tumour necrosis factor; receptor; messenger RNA; aziridinylcytosine; cross-linking group; ss.
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                                                  New sequence-specific non-photo-activated crosslinking the major groove of duplex DNA and are esp. useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 18 BP; 1 A; 1 C; 0 G; 16 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New sequence-specific non-photo-activated crosslinking agents - bind to the major groove of duplex DNA and are esp. useful for treating latent
                                                                                                               WPI; 1992-007480/01.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1521 AAAAAAAAAAAGTAAAA 1537
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16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAAAAAAAAATAAAA 1
                                 e.g. HIV.
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Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                oligomer 942 to target human TNF Receptor
                                                                                                                                                  Krawczyk S;
                                                                                                                                                                                       SCIE INC.
                                                                                                                                                                                                                          90US-00529346.
91US-00640654.
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/mod_base= OTHER
/mote= "N4N4-ethanocytosine"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     mod_base=
English.
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Pred. No. 3
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                                                      agents -
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RESULT 201
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AAQ30448/c
AAQ AAQ30,4
AC AAQ30,4
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The synthetic oligomer is capable of forming a triplex at physiological pH with a purine rich target sequence by coupling into the major groove of the duplex. The specific target sequence of this oligomer is the human tumour necrosis factor receptor mRNA beginning at nucleotide 2354 contg. a purine rich sequence concd. on one strand of the duplex. The oligomer, and others like it are useful in diagnosis and therapy of diseases characterised by specific DNA duplex targets, e.g. HPV, HER, HTV, hepatitis B, herpes, malignant tumours and inflammation. The triple helices form under mild conditions thus assays may be carried out without
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0448/C
AAQ30448
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-MAR-2003
07-DEC-1992
                                                                                                                                                                                                                              Claim
                                                                                                                                                                                                                                                                                                                                                               WPI; 1992-217083/26.
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17-APR-1991;
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17-APR-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23-NOV-1990;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human tumour necrosis factor receptor mRNA; AIDS; modified; HIV; RSV;
                                                                                                                                                                                                                                                                     herpes malignancy and inflammation
                                                                                                                                                                                                                                                                                                 doublet in
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                                                                                                                                                                                                                                                                                          oligomers contg. modified bases -
olet in a DNA duplex, for treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1520 AAAAAAAAAAAAGTAAA 1536
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16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    malignancy; hepatitis; inflammation; ss.
                                                                                                                                                                                                                           12; Page 72; 77pp; English.
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ilarity 94.1%;
Conservative
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(first entry)
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91US-00686547.
91US-00766733.
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91US-00643382.
91US-00683420.
91US-00686544.
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Pred. No. 3.
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Mismatches 1
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RESULT 202
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Best Local S
Matches 16
                                                                                                                  WPI;
                                                                                                                                                                                                                                                                                                                                       modified_base
                                                                                                                                                                                                                                                                                                                                                                                  Human tumour necrosis factor receptor mRNA; AIDS; modified; HIV; RSV; HPV; malignancy; hepatitis; inflammation; ss.
                                                                                                                                                                                                                                                                                                                                                                                                            Oligomer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 18
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and AAQ30226-447. (U
on 25-MAR-2003 to co
                                                                                                                                   Froehler
                                                                                                                                                                                                     08-APR-1991;
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07-DEC-1992
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17-APR-1991;
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                                                                                                                                                                                                                                                        11-JUN-1992
                                                                                                                                                    (GILE-)
                                                                                                                                                                                             17-APR-1991;
                                                                                                                                                                                                            18-JAN-1991;
                                                                                        oligomers contg. modified bases -
blet in a DNA duplex, for treating
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                                                                                                                  1992-217083/26.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       standard; DNA; 18
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(first en
                                                                                                                                   Krawczyk S,
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91US-00686547.
91US-00766733.
                                                                                                                                                    SCI INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  specimen to harsh conditions. See also AAQ25452-25501
Updated on 25-MAR-2003 to correct PN field.) (Updated orrect PD field.)
                                                                                                                                                                                                                                                                                                                                                                                                                              entry)
                                                                                                                                                                                                                                                                                                                                                                                                           forming
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                                                                                                                                   Matteucci MD,
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                                                                                                                                                                                                                                                                                                                                                                                                            triplex with HUMNFR target duplex.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 15.4; DB 1;
Pred. No. 3.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                         ethanocytosine"
                                                                                         which form a triplex with G-C and diagnosing HIV, hepatitis,
                                                                                                                                   Milligan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 1;
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The synthetic oligomer is capable of forming a triplex at physiological pH with a purine rich target sequence by coupling into the major groove of the duplex. The specific target sequence of this oligomer is the human tumour necrosis factor receptor mRNA beginning at nucleotide 2354 contg. a purine rich sequence concd. on one strand of the duplex. The oligomer, and others like it are useful in diagnosis and therapy of diseases characterised by specific DNA duplex targets, e.g. HPV, HER, HIV,

Claim 12;

Page

72; 77pp;

English.

herpes malignancy

and inflammation.

doublet

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RESULT 203
AAZ91373
ID AAZ91373
XX AAZ91373
XX AAZ91373
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Best Local
                                                                                                                                                            The present invention describes phosphorothioate antisense oligonucleotides that are targeted to the 3'-untranslated region (UTR) the sequence encoding a human dual specificity protein phosphatase designated PTEN (also known as MMAC1 and TEP1), and hybridise specifically to the human PTEN nucleotide sequence given in AAZ91361. 'antisense oligonucleotides have anticancer, anti-inflammatory and anti-antisense oligonucleotides have anticancer antisense oligonucleotides.
        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   hepatitis B, herpes, malignant tumours and inflammation. The triple helices form under mild conditions thus assays may be carried out without subjecting the test specimen to harsh conditions. See also AAO24542-25501 and AAO30226-448. (Updated on 25-MAR-2003 to correct PN field.) (Updated
                                                                                                                                         be used
                                                                                                                                                                                                                                                                                                                                                                                                                                                       New antisense compounds useful for treating, preventing or diagnosing e.g. tumors or inflammation, are targeted to the human dual specificity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; PTEN inhibition;
                                                                        infective activities. The phosphorothicate antisense oligonuclectides can be used for diagnosis, treatment and prevention of PTEN-related diseases, e.g. infections, inflammation and tumours. The present sequence represents a phosphorothicate antisense oligonuclectide for human PTEN,
                                                                                                                                                                                                                                                                                                                                                                         Claim 16; Col 40; 32pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                            protein phosphatase (PTEN) sequence
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        7 C; 9
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Pred. No. 3.
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        Other;
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Query Match

Score

15.4;

DB 1;

Length 18;

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RESULT 204
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ID AAS13999
XX AAS1399
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Matches 16; Conservative
The invention relates to a compound targeted to a nucleic acid encoding PTEN (a dual specificity protein phosphatase), where the compound is an antisense oligonucleotide. The antisense oligonucleotides are useful in modulating the function of nucleic acids encoding PTEN, ultimately modulating the amount of PTEN produced. The antisense compounds can used as diagnostics, therapeutics, prophylactics (e.g. to prevent or delay infection, inflammation or tumour formation), and as research agents and kits. The antisense compounds are also useful in treating diabetes, decreasing insulin resistance, increasing insulin sensitivity and decreasing blood triglyceride or cholesterol levels in a diabetic animal.
                                                                                                                                                                                                                                                                                                                                                            New antisense oligonucleotides targeting nucleic acids encoding PTEN, useful for treating diabetes, increasing insulin sensitivity, or decreasing insulin resistance, blood triglyceride or cholesterol levels in a diabetic animal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; PTEN; MYAC1; TBP1; protein phosphatase; antileense; ss; antilinflammatory; cytostatic; antidiabetic; antilipaemic; infection; inflammation; tumour; diabetes; insulin resistance; insulin sensitivity; triglyceride control; cholesterol control; ISIS 29539.
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15-18 are 2'-MOE all cytosines in this region are 5-
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1-4 are 2'-MOE all
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                                                                                                                                                          The present sequence was used to generate a polypeptide with extended polyglutamine regions. This was performed in an example illustrating a method for identifying a compound which disrupts polypeptide aggregation. The method is carried out using a cell which has been genetically modified to express aggregation-disposed polypeptides, or using purified aggregation-disposed polypeptides. The compounds identified by this method are useful for treating disorders associated with such polypeptide aggregation, including Huntington's disease, Alzheimer's disease, parkinson's disease, spinocerebellar ataxia, multiple myeloma, amyloidosis, and spongiform encephalopathies like Creutzfeldt-Jakob disease and kuru in humans. The present sequence was annealed to its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present sequence is an antisense oligonucleotide targetting encoding PTEN (also known as MMACI/TEP1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Screening for agents which disrupt aggregation of polypeptides treating aggregation-associated disorders e.g. Alzheimer's diseusing aggregation-disposed polypeptides or cell expressing the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Polyglutamine region; polypeptide aggregation, aggregation disruption; Huntington's disease; Alzheimer's disease; Parkinson's disease; spinocerebellar ataxia; multiple myeloma; amyloidosis; anticonvulsant; spongiform encephalopathy; neuroprotective; nootropic; antiparkinsonian;
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                               Claim 7;
                                                                               WPI; 2002-479187/51.
                                                                                              Monia BP,
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(COWS/) COWSERT L M.
                                              compound, preferably an antisense oligonucleotide, that inhibits the expression of phosphoinositide phosphatase ating diseases such as diabetes, or a hyperproliferative
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                              Page 31; 39pp; English.
                                                                                             Cowsert LM,
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                                                                                                                                                                                                                                                                                                                                  nucleotides"
                                                                                                                                                                                                                                                                                                                                                                  backbone"
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                                                (PTEN), fo
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invention relates to antisense compounds, compositions and methods modulating the expression of phosphoinositide phosphatase (PTEN). 'isense compound is used to inhibit the expression of PTEN in cells or the compound is used to inhibit the expression of PTEN in cells or the compound is used to inhibit the expression of PTEN in cells or the compound is used to inhibit the expression of PTEN in cells or the compound is used to inhibit the expression of PTEN in cells or the compound is used to inhibit the expression of PTEN in cells or the compound is used to inhibit the expression of PTEN in cells or the compound is used to inhibit the expression of PTEN in cells or the compound is used to inhibit the expression of PTEN in cells or the compound is used to inhibit the expression of PTEN in cells or the compound is used to inhibit the expression of PTEN in cells or the compound is used to inhibit the expression of PTEN in cells or the compound is used to inhibit the expression of PTEN in cells or the compound is used to inhibit the expression of PTEN in cells or the compound is used to inhibit the expression of PTEN in cells or the compound is used to inhibit the expression of PTEN in cells or the cells of the c

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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 tissues, preferably human, or rodent, such as mouse or rat, liver, kidney or adipose cells or tissues. It is used to treat a disease or condition associated with PTEN, such as a metabolic disease or condition, preferably diabetes, especially Type 2 diabetes, or a hyperproliferative condition. It is also used to decrease blood glucose or insulin levels in an animal, preferably a diabetic human or rodent. It is also used to decrease insulin sensitivity, in an animal, preferably a diabetic human or rodent. It is used to decrease blood triglyceride or cholesterol levels in an animal, preferably a diabetic human or rodent. It is used to decrease blood triglyceride or cholesterol levels in an animal, preferably a diabetic number or used in antisense gene thorapy. The diabetic human or rodent. It is also used in antisense gene thorapy. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              polyglutamine-containing transcription factor; hexamerisation of p53 homodimerisation of jun; expanded trinucleotide repeat; CAG repeat; Huntington's disease; HD; primal and bulbar muscular atrophy; SBMA; dentatorubral-pallidoluysian atrophy; spinocerebellar ataxia type 1; spinocerebellar ataxia type 2; spinocerebellar ataxia type 6; spinocerebellar ataxia type 7; Machado-Joseph disease; MJD/SCA3; spinocerebellar ataxia type 7; Machado-Joseph disease; MJD/SCA3;
                                                                                                                                                      Novel agent for inhibiting protein-protein interaction useful to treat Alzheimer's disease, has two domains which bind first, second proteins with seven consecutive glutamine residues and a domain separating two
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                               18-AUG-2000; 2000US-0226502P
                                                                                                                                                                                                                                                                                                                                            20-AUG-2001;
                                                                                                                                                                                                                                                                                                                                                                                                         WO200216644-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Oligonucleotide #2 used to
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
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                                                                                                           English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cerebroprotective; neuroprotective; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           generate DNA with trinucleotide extensions.
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                                                                                                                                                                                                                                                    Housman DE;
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Pred. No. 3.
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domain (D1) that binds a protein having at least seven consecutive glutamine (Glu) residues, a second domain (D2) that binds another protein having at least 7 consecutive Glu residues, and a third domain (D3) that separates D1 from D2. The therapeutic agents of the invention are useful for inhibiting protein-protein interactions (A account of the protein for inhibiting protein-protein interactions)

present invention relates to therapeutic agents comprising a fain (D1) that binds a protein having at least seven consecutive tamine (G1u) residues, a second domain (D2) that binds another processes.

first

The present invention describes an isolated nucleic acid (I) comprising single nucleotide polymorphism (SNP) chosen from: (i) a nucleic acid of salmo salar SNPs, Oreochromis niloticus SNPs or Atlantic halibut SNPs; and (ii) a nucleic acid having nucleotide semisare that the companies of the same short that the companies of the same short that the same short that the companies that the same short thas the same short that the same short that the same short that th

and (ii) a nucleic acid having nucleotide sequence that hybridises to (i), or its complement under highly stringent hybridisation conditions. Also described: (1) an isolated oligonucleotide (II) comprising at least 17 contiguous nucleotides of a nucleotide sequence of S. salar SNPs, O. niloticus SNPs, O. niloticus microsatellites, Atlantic halibut SNPs, cod polymorphic sites and seabass polymorphic sites, or their complement; (2)

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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   dimerisation or other physiologically significant association), and car be used for treating Alzheimer's disease, and disorders in which polyglutamine-containing transcription factors or coactivators are desirably active (e.g. disorders associated with homodimerisation of juon rhexamerisation of p53. The therapeutic agents can also be used to tract various disorders, including those associated with expanded trinucleotide (CAG) repeats. For example such disorders can include Huntington's disease (HD), primal and bulbar muscular atrophy (SBMA), dentatorubral-pallidoluysian atrophy, spinocerebellar ataxia type 1, type 6 or type 7, or Machado-Joseph disease (MJD/SCA3). The present sequence represents an oligonucleotide used to generate double stranded DNA with trinucleotide extensions
                                                                                                                                                                Novel isolated nucleic acid molecule comprising single nucleotide polymorphism associated with fish, useful for forming PCR primers which are used for detecting single nucleotide polymorphisms in fish nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                              single nucleotide polymorphism; SNP; fish; Salmo salar; Orechromis niloticus; Atlantic halibut; microsatellite; polymorphic site; seabass; salmonidae; Tilapia; rainbow
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                                                                                                                                                                                                                                                                                              18-JAN-2002; 2002US-0349950P
16-AUG-2002; 2002US-0404200P
                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic
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                                                                                                                              Claim
                                                                                                                                                       acids
                                                                                                                                                                                                                     WPI; 2003-627388/59.
                                                                                                                                                                                                                                                                                                                                    17-JAN-2003; 2003WO-IB000112
                                                                                                                                                                                                                                                                                                                                                                                                               Oreochromis
                                                                                                                                                                                                                                                                                                                                                                                                                                                    detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Oreochromis
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ation or other physiologically significant association) for treating Alzheimer's disease, and disorders in whi
                                                                                                                                                                                                                                                                        GENOMAR
                                                                                                                                                                                                                                               Slettan
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            standard; DNA; 18
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                                                                                                                            SEQ ID NO 861; 233pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                    primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                               niloticus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  trout; halibut;
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RESULT 209
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ID ADF4313
XX ADF431
XX Human
XX AT Anha
E C AT Anha
E C AT Anha
E C C Consise
CC Gene P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a primer pair (III) suitable for use in PCR, comprising two (II) capable of amplifying a nucleotide sequence chosen from S. salar SNPs and, O. niloticus microsatellites, Atlantic halibut SNPs, cod polymorphic sites and seabass polymorphic sites, and determining (M1) the origin of fish sample comprising providing a parentage genotype database comprising a collection of candidate parent genotypes, where each of the candidate parent genotype represents a distinct origin, and comparing a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Alzheimer's disease marker; phosphatase and tensin homologue; chromosome 10; PTEN; p70 S6 kinase gene; Alzheimer's disease; human; antisense therapy; ss.
                                                                                                                   Alzheimer's disease marker present in base sequence of phosphatase and tensin homolog deleted on chromosome ten gene or p70 S6 kinase gene useful as probe or primer for diagnosis of Alzheimer's disease.
                                                                                                                                                                                                                                                                                                                                                                                                                   JP2003339378-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12-FEB-2004
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                                                                                                                                                                                                                                                                                        24-MAY-2002; 2002JP-00150115
                                                                                                                                                                                                                                                                                                                                 24-MAY-2002; 2002JP-00150115.
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                                                                                                                                                                                                                                                  (SUMU ) SUMITOMO SEIYAKU
                                                                                                                                                                                                           2004-039518/04
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                                                                               NO 10;
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                                                                               38pp; Japanese.
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Pred. No. 3.6e-
0; Mismatches
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This invention relates to a novel human Alzheimer's disease consists of at least 15 contiguous bases of phosphatase and gene homologue deleted on chromosome 10 or a p70 S6 kinase c

e marker which d tensin (PTEN) gene. The

New double-stranded oligomeric compounds that modulate PTEN expression, useful for diagnosing, preventing or treating conditions associated with PTEN, e.g. metabolic diseases, type 2 diabetes or hyperproliferative

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RESULT 210
AD13018
ID AD1301
XX AD1301
XX AD1301
XX AD1301
XX PTEN;
KW PTEN
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                 24-MAY-2000;
11-JUN-2001;
18-SEP-2002;
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(BENN/)
(BAKE/)
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Synthetic.
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                                                                                       WPI; 2004-061664/06.
                                                                                                                                Monia BP,
                                                                                                                                                                                                                                                                                                                                                   21-JUL-1999;
14-DEC-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PTEN; metabolic disease; type 2 diabetes; hyperproliferative condition; prophylaxis; gene therapy; human; MMACl; phosphorothioate backbone; TEP1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human PTEN specific antisense oligonucleotide, ISIS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    633 GGGAGGTGGCGCCGCCG 649
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VICKERS
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                                                                                                                             Bennett CF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 1 A; 7 C; 9 G; 1 T; 0 U; 0 Other;
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2001US-00878582.
2002US-0411780P.
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99WO-US029594.
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15. .18
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methylcytidines"
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/mod_base= OTHER
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/note= "2'-methoxyethyl
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                                                                                                                                  Baker
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Pred. No. 3.6e+02;
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to antisense compounds, compositions and methods for modulating the expression of PTEN (also known as MMAC1 and TEP1). The compound is useful for inhibiting the expression of PTEN in cells or tissues to treat diseases associated with their expression, e.g. metabolic diseases or conditions, type 2 diabetes or hyperproliferative conditions. In addition, the compound is used for diagnostics, prophylaxis, or as research reagents or kits. The invention is useful in gene therapy. The present sequence is human PTEN DNA specific antisense oligonucleotide.
            AAV48709-886 represent antisense oligonucleotides directed against the ErbB-2 gene. Of these, only oligonucleotides AAV48709-91 resulted in significant redcution in ErbB-2 protein expression, while oligonucleotides AAV48729-886 had little effect. The oligonucleotides exemplify the invention. The specification describes oligonucleotides that contain 8-30 nucleotides, which contain at most 8 nucleotides that can each form three hydrogen bonds to cytosine; do not contain four consecutive nucleotides able to form three H-bonds each to four consecutive eytosines; do not contain two sequences of three consecutive nucleotides each able to form three H-bonds to three consecutive
                                                                                                                                                                                                                          Preparation of antisense oligo:nucleotide(s) which lack long runs of consecutive guanosine or inosine - and have specific ratio of residues able to form two or three hydrogen bonds, have greater activity and reduced toxicity, used therapeutically or to modulate growth of cells i
                                                                                                                                                                                 Example 4;
                                                                                                                                                                                                                                                                                                                                 Schlingensiepen K,
                                                                                                                                                                                                                                                                                                                                                                                              31-JAN-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EP856579-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ErbB-2; antisense oligonucleotide; modulate; gene expression;
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                                                                                                                                                                                                                                                                                                                                                                (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE
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                                                                                                                                                                                Fig 6d; 286pp; English
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Pred. No. 3.
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RESULT 212
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Best Local (
                               The invention relates to an isolated nucleic acid (I) promoter capable of regulating transcription of an operably linked DNA sequence. The promoter sequences may be used for selectively modulating expression of any operatively linked gene and provide additional regulatory element diversity in a plant expression vector in gene stacking approaches, and for regulating gene expression in male reproductive tissues or gene transcription of any target gene (e.g. for controlling fertility, insect, pathogen or herbicide tolerance). The nucleic acids are useful as hybridisation probes or primers in hybridisation assays of other plant tissues to identify closely related or homologous genes and associated regulatory sequences. ABK27808-ABK27918 represent corn male reproductive tissue promoter sequences and PCR primers of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (2R) or three such bonds (3R) is given by 2R/3R = 0.33-0.72. The oligonucleotides are used to modulate expression of genes, particularly the genes for p53, ErB-2, junB, junD, TGF-beta 1 or beta 2 to control proliferation of primary cell cultures (e.g. bone marrow stem, liver or kidney cells, osteoclasts, osteoblasts and/or keratinocytes). The oligonucleotides can also be used to analyse function of proteins (by altering their expression or activity) and therapeutically, e.g. in cases of cancer or (targeting TGF) for stimulating the immune system
                                                                                                                                                                                                                                                                                                                                                              WPI;
                                                                                                                                                                                                                                                                                         them, useful for regulating reproductive tissues.
                                                                                                                                                                                                                                                                                                          New plant regulatory sequences or promoters and nucleic them, useful for regulating gene expression, especially
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                                                                                                                                                                                                                                                         Example 3; Page 104; 131pp; English.
                                                                                                                                                                                                                                                                                                                                                                                               Conner TW,
                                                                                                                                                                                                                                                                                                                                                                                                                               (MONS ) MONSANTO TECHNOLOGY LLC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               28-JUN-2000; 2000US-0214357P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26-JUN-2001; 2001WO-US020658
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10 G; 5 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     promoter, PCR primer
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                                                                                                                                                                                                                                                                                                                                                                                               JD;
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                                                                                                                                                                                                      promoter
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Query Match Best Local S

Similarity

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Indels

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Gaps

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DB 1; Length 20;

Conservative

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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention describes a method of predicting, diagnosing or prognosing a cardiovascular disease by detection of a polynucleotide in a biological sample comprises hybridising at least one of the polynucleotide to a nucleic acid material of a biological sample, thus forming a hybridisation complex, and detecting the hybridisation complex. The polynucleotides, polypeptides, antisense molecule, antibody and reagent are useful for preparing compositions for preventing, predicting or diagnosing, or a medicament for treating a cardiovascular disease, e.g. arteriosclerosis, ischaemia, angina pectoris, or myocardial infarction. This sequence represents a primer used to identify genes differentially regulated in individuals with cardiovascular disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Predicting, diagnosing or prognosing a cardiovascular disease, angina, ischemia, myocardial infarction or arteriosclerosis by of a polynucleotide in a biological sample comprises detecting hybridization complex.
   17-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           myocardial infarction; cardiant; antiarteriosclerotic; antianginal;
gene therapy; differential gene expression; PCR; primer; ss.
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                                                            ABZ91205;
                                                                                                                  ABZ91205 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cardiovascular disease; arteriosclerosis; ischaemia; angina pectoris;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACA89978
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                                                                                                                                                                                                                                                                                                722 GTTTTGCTGTTGCTGCT 738
                                                                                                                                                                                                                                                                                                                                                                              16;
                                                                                                                                                                                                                                                            1 GATTTGCTGTTGCTGCT 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20 BP; 1 A; 3 C; 7 G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     standard;
                                                                                                                                                                                                                                                                                                                                                                              Conservative
   (first entry)
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                                                                                                                  DNA;
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Pred. No. 3.
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BXXXX

ABD27435; 29-JUL-2004

(first entry)

RESULT 215

ABD27435 standard; DNA;

20 BP

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                                                                                                                                                       The invention relates to a novel pharmaceutical composition, which has a CC first active agent comprising an oligonucleotide antisense to the CC initiation codon, coding region, 5' or 3' end genomic flanking regions, CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or CC nasal airway dysfunction and a second active agent comprising an CC antiinflammatory steroid and ubiquinone. A composition of the invention CC immunosuppressive, and cytostatic activity. The composition may have a CC use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also CC for enhancing the prophylactic or therapeutic respiratory effect of an CC entiinflammatory steroid in a subject, for reducing or depleting levels of antiinflammatory steroid in a subject, for reducing levels of adenosine creceptor, producing bronchodilation, increasing levels of adenosine creceptor, producing bronchodilation, increasing levels of biquinone or CC lung surfactant in a subject, s tissue, or treating bronchoconstriction, conficient in the sequence data for this patent is not represented in the printed precification, but was obtained in electronic format directly from WIPO are ferming in format directly from WIPO
                                                                          Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nyce JW,
Miller S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             corresponding RNAs, ubiquinone.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; bypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
                                                                                                                                                   Sequence 20 BP; 6 A; 5 C; 7 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24-APR-2001; 2001US-0286137P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human oligonucleotide sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (EPIG-)
                                                                                                                                                                                           ftp.wipo.int/pub/published_pct_sequences
                          1551 GTCACCCAGAATGCCAG 1567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               inflammation; respiratory disease; ds.
3 GTCACCCAGAATGGCAG
                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EPIGENESIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Li Y, San
Tang L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 6447; 872pp; English.
                                                                            Conservative
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L, Shahabuddin
                                                                                              94.1%;
    19
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                                                                                            Score 15.4; DB 1;
Pred. No. 3.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Katz
S;
                                                                            Mismatches
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                                                                            Gaps
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H37989-derived oligonucleotide SEQ ID

antisense;

bronchoconstriction; allergy; hyposecretion; pain;

6447.

respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antilinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;

pulmonary transplantation rejection; ss; primer.

sapiens.

CC comprising oligonucleotides, effective for alleviating composition, respiratory tract inflammation, allergies and correducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, comprising oligonucleotides sensitivity, levels of adenosine (A) or (A) receptors, composition or hyposecretion, when administered to a mammal. The coligonucleotides are derived from a gene encoding or regulating compression of a target polypeptide associated with lung airway or lung compression of a target polypeptide associated with lung airway or lung compression of a target polypeptide associated with lung airway or lung compression of a target polypeptide associated with lung airway or lung compression of a target polypeptide associated with lung airway or lung compression of the invention also describes a kit, that comprises (a) a delivery composition for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, analgesic, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or composition comprises oligo and is administered to reduce the production comprises oligo and is administered to reduce the production or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The composition as pulmonary vasoconstriction, and is administered to reduce the production, allergies and/or burdactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction, compliant ation, allergies, asthma, impeded respiration, respiratory pulmonary hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary the preduced adenosine content of the anti-sense oligos corresponding to the present in the target RNA serves to prevent the breakdown of the present in the target polypers the product in the terms of the product. Best Local Similarity Matches 16; Conserv Query Match the oligonucleotides into products that e.g., lung, brain, heart, kidney, etc, t prevent any unwanted effects due to it Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and Claim 15; SEQ ID NO 6447; 763pp; English. WPI; 2003-093058/08. Miller 24-APR-2001; 2001US-0286036P WO200285309-A2 bronchodilating agent. 23-APR-2002; 2002WO-US013143 (EPIG-) invention describes Ś EPIGENESIS Li Y, Sa , Tang L, 20 BP; Conservative o Sandrasagra A, L, Shahabuddin , heart, kio A PHARM INC 5 C; 7 94.1%; a novel composition .. G; 2 T; 0 U; 0 Other; Score 15.4; DB 1; Pred. No. 3.3e+02; 0; Mismatches S Katz E, Pabalan J, tissue environment and thereby, to DB 1; Length 20; (a) a first : Aguilar active 0 Gaps agent, 0

Query Match Best Local S Matches 16

Similarity

94.1%; 1.1%; ű

Pred. No. 3.10 0; Mismatches Score 15.4; 6 T; 0 ς;

.1e+02;

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Gaps

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DB 1; Length 21; Indels

Conservative

Sequence

21

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0 Other;

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ARHSULT 216
ARH405
AXX ARH405
AXX ARH405
AXX IARH405
AXX IARH405
AXX IARH405
AXX IARH405
AXX IARH405
AXX Single
KW Single
KW Single
KW Lesch-
KW Lesch-
KW Lesch-
KW Lesch-
KW Lesch-
KW Inflam
AXX IARH400
AXX IA
                                                                                             Sequences AAH37205 - AAH40944 represent PCR primers, single nucleotide primer extension (SNPE) primers, and the sequences of regions flanking sites of single nucleotide polymorphisms SNPs. The present invention CC includes kits for determining the presence or a shence of a SNP, using the CI oligonucleotides of the invention. The PCR primers are used to amplify a CC PTH oligonucleotides are useful for genotyping a nucleic acid sample by performing a single-nucleotide primer extension reaction. The CC oligonucleotides are useful for determining the presence, absence or cc identity of a SNP and for genotyping nucleic acid sample by performing a succiation analysis the genotype of an individual or group of consensus by association analysis the genotype of an individual or group of conditionals, having a pathological phenotypic trait suspected of being caused by one or more SNPs. Phenotypic traits include diseases e.g. agammaglobulinaemia, diabetes insipidus, Lesch-Myhan syndrome, muscular CC disease include symptoms of or susceptibility to multifactorial contraits also include symptoms of or susceptibility to multifactorial cliseases, including, rheumatoid arthritis, multiple sclerosis, include symptoms of or susceptibility to multifactorial conficuency including, rheumatoid arthritis, multiple sclerosis, and contraining the method is also useful in forensic investigations and contentity analysis. The present sequence represents a PCR primer specific for a human SNP containing NNA secuence.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Single nucleotide polymorphism; SNP; single nucleotide primer exte SNPE; genotyping; agammaglobulinaemia; diabetes insipidus; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New genotyping oligonucleotide, useful for detecting the presence, absence or identity of single polynucleotide polymorphism in a nuc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAH40594 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 1; Page 67; 83pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Picoult-Newburg L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15-OCT-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14-AUG-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (ORCH-) ORCHID BIOSCIENCES INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1551 GTCACCCAGAATGCCAG 1567
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21
                                                                                 DNA sequence
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RESULT 217
ABD25908
            comprising oligonucleotides, effective for alleviating controlleotides, effective for alleviating controlleotides, respiratory tract inflammation, allergies and controlleotides are derived from a gene encoding or requiating controlleotides are derived from a gene encoding or regulating controlleotides are derived from a gene encoding or regulating controlleotides are derived from a gene encoding or regulating controlleotides are derived from a gene encoding or regulating controlleotides are derived from a gene encoding or regulating controlleotides are derived from a gene encoding or regulating controlleotide, controlleotides, controlleotides, controlleotides, controlleotides, confidential activity, antiastmatic, confidential activity, antiastmatic, confidential activity, is a beta-adrenergic agonist. The composition is useful for preventing or controlleotides, controlleotides,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 15; SEQ ID NO 4920; 763pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; antiapesic, hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema, chronic obstructive pulmonary disease; cancer; bronchitis; pulmonary transplantation rejection; ss; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This invention describes a novel composition (a) a first active
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               bronchodilating agent.
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, Tang L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GTGTCAAAGATAAGGTT
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L, Shahabuddin
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יז S;
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Best Local :
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24-MAY-2000;
11-JUN-2001;
18-SEP-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The reduced adenosine content of the anti-sense oligos corresponding to thymidines present in the target RNA serves to prevent the breakdown of the oligonucleotides into products that free adenosine into the system e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, prevent any unwanted effects due to it
                                                                                                                                                                                             New double-stranded oligomeric compounds that modulate PTEN expression, useful for diagnosing, preventing or treating conditions associated wit
                                                                                                                                                                                                                                                                                                            Monia BP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Key
modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PTEN; metabolic disease; type 2 diabetes; hyperproliferative condition; prophylaxis; gene therapy; human; WMACl; phosphorothioate backbone; TEF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human PTEN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1520 AAAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                        for diagnosing, prevent:
e.g. metabolic diseases,
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                                                                                                                                                                                                                                                                                                                                                   MONIA B P.
BENNETT C F.
BAKER B F.
VICKERS T.
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; 2001US-00878582.
; 2002US-0411780P.
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/mod_base= OTHER
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D; Mismatches
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                                                                                                                                                                               diabetes
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The invention relates to antisense compounds, compositions and methods for modulating the expression of PTEN (also known as MWAC1 and TEP1). 'compound is useful for inhibiting the expression of PTEN in cells or tissues to treat diseases associated with their expression, e.g.

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                                                                 RESULT 220
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Matches 16; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to a novel intercalator having a specific formula. The intercalator of the invention may be useful for the electrochemical detection of a gene, as an electrochemical double stranded DNA detection reagent and as an intercalator for inhibiting the influence of mismatch DNA and single stranded DNA. The intercalator enables the transmission of electronic transition between two base pairs to occur efficiently. The current sequence is that of the electrochemical detection intercalator-related DNA 1 of the invention.
                           ADO60172 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel intercalator, useful as electrochemical double
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                                                                                                                                                                                                                                                                                                                                                                     G; 20 T;
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Pred. No. 3
                                                                                                                                                                                                                                                              Pred. No. 3.10
L; Mismatches
                                                                                                                                                                                                                                                                                                            Score 15.4; DB 1; Length 21;
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                                                                                                                                                                                                                                                                                                                                                                     0 U;
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                                                                                                                                                                                                                                                                                       3.1e+02;
                                                                                                                                                                                                                                                                                                                                                                     1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB
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Matches
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention comprises primers and probes for detecting a polymorphism in the human TFAP-2-beta gene associated with risk of developing type II diabetes. The primers and probes of the invention are useful for detecting the polymorphism in the human TFAP-2-beta gene associated with risk of developing type II diabetes. The present DNA sequence represents a probe that was used to detect the type 2 diabetes-related polymorphism in the human TFAP-2-beta gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel probe for detecting polynucleotide associated with risk of developing type II diabetes, the polynucleotide containing a substitution of guanine to thymine at position 774 of first intron of TFAP-2 beta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human TFAP-2-beta (type II diabetes-related) gene-specific probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21 BP; 15 A; 0 C; 2 G; 3 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gene.
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31-MAR-2003; 2003JP-00095885
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                  16-APR-1993;
                                                    01-NOV-1994.
                                                                                      JP06303997-A
                                                                                                                       Synthetic.
                                                                                                                                                       aggregate;
                                                                                                                                                                         Analysis; gene expression; reverse transcription; primer; cDNA;
                                                                                                                                                                                                          Reverse transcription primer used in cDNA analysis technique.
                                                                                                                                                                                                                                              04-AUG-1995
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21-NOV-2003;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               26-AUG-2004
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16; Conserv
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                                                                                                                                                                                                                                                                                                                  standard; DNA; 20
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                                                                                                                                                           restriction enzyme; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2003WO-JP014936
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                  93JP-00112515
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                                                                                                                                                                                                                                                                                                                  ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 15.4; DB 1;
Pred. No. 3.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
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AAG75585/C
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Best 'Local Similarity
'Artches 17; Conserve
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                                                    A method for the analysis of cDNA comprises (a) preparing an aggregate (double-stranded cDNAs by using an aggregate of mRNAs and a plural type (labelled reverse transcription primers (GENESEQ files AAO75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16-APR-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Analysis; gene expression; reverse transcription; primer; cDNA; aggregate; restriction enzyme; as.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Reverse transcription primer used in cDNA analysis technique.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1995-018287/03
                                                                                                                                                                                                                                                                                                                                                                                           Analysis of cDNA and gene expression -
by digestion with restriction enzymes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1995-018287/03.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         93JP-00112515.
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85.0%;
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Pred. No. 3.6e+02;
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Sequence

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Analysis; gene expression; reverse transcription; primer; cDNA; Reverse transcription primer used in cDNA analysis technique.

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RESULT 223
AAQ75596/c
ID AAQ75596;
XX
AC AAQ75596;
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AC AAQ75596;
XX
DT 04-AUG-1995 (first entry)
DT 04-AUG-1995 (first entry)
XX
DE Reverse transcription primer use
XX
Analysis; gene expression; rever
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Analysis; gene expression; rever
XW
ANALYSIS; gene expression; rever
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ANALYSIS; gene expression; rever
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ANALYSIS; gene expression; rever
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OS Synthetic.
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PN JP06303997-A.
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AAQ75589/c
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Best Local S
Matches 17
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AAQ75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in separate lanes. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20 BP; 2 A; 1 C; 0 G; 17 T; 0 U; 0 Other;
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by digestion with restriction enzymes.
                                                                                                        04-AUG-1995
                                                                                                                                                              AAQ75589
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Analysis; gene expression; reverse transcription; primer; cDNA; aggregate; restriction enzyme; ss.
                                                                                                                                                                                                                                                                                                                                                                                                         1518 TTAAAAAAAAAAAGTAAAA 1537
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Pred. No. 3.
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                      Disclosure; Page 5; 11pp; Japanese
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  16-APR-1993;
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                                                                                                                                                   reverse transcription; primer; cDNA;
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Pred. No. 3.
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RESULT 229
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                     A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AQ75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
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                                                                                                                                           Disclosure; Page 5; 11pp; Japanese
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21-JUN-1999
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                                      gene exon 8 primer 3e81srb1.
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Pred. No. 3.6e
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                                                                                                                 SR-BI; human; polymorphism; cardiovascular disorder; ischaemia; restenosis; congestive heart failure; atherosclerosis; cholesterol; low density lipoprotein; LDL; high density lipoprotein; HDL; diagnosis; body mass index; obesity; cachexia; gallstone; PCR; primer; ss.
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                                                                                                                                                                                                                                          Human SR-BI gene exon 8 primer 3e81srb1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-JUL-1997;
27-FEB-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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98US-00031626.
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                                                                                                                                                                                                                                                                                                                                                                                             DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1.1%;
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                                                                                                                                                                                                                                                                                                                                                                                               ₽P
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Pred. No. 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
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1.6e+02;
nes 3;
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RESULT 233
AAZ95073
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           primer 3e81arb1 is used with primer 5e81arb1 (see AAX24616) in the PCR amplification of exon 8 (see AAX2457) of the human SR-BI gene. The invention is based on the discovery of the genomic structure of the human SR-BI gene (see AAX24590-601) and on the identification of polymorphic regions within the gene which are associated with abnormal body mass index (BMI) and abnormal lipoprotein levels and hence with disorders such as obseity, cachexia, cardiovascular disorders and gallstone formation. Claimed primers (see AAX24602-25) are used for the amplification of the exons, introns and promoter region of the SR-BI gene for detection of polymorphisms and mutations. The invention provides methods for determining whether a subject has, or is at risk of developing, a disease associated with a specific allele of a polymorphic region of an SR-BI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New nucleic acids comprising intronic sequence of a human scavenger receptor-BI (SR-B1) gene - useful for prognosis, diagnosis and treatment of SR-BI associated diseases or conditions.
                                                                                                                                                                                                                             UDP-glucuronosyltransferase 287; UGT287; polymorphism; metabolism; SNPs; drug interaction; detect; human; single nucleotide polymorphism; ss.
                                                                                                                                                                                                                                                                                                                                 AAZ95073;
                           28-JUL-1998;
                                                      22-JUL-1999;
                                                                                                                                                         variation
                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                          Human UGT2B7
                                                                                                                                                                                                                                                                                                      05-JUN-2000
                                                                                                                                                                                                                                                                                                                                                              AAZ95073 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20 BP; 4 A; 13 C; 1 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                gene. Kits comprising the relevant probe or primer are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 10; Page 67; 103pp; English.
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27-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21-JAN-1999
(AXYS-) AXYS PHARM INC
                                                                                  10-FEB-2000
                                                                                                               WO200006776-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                      20 GTGGGCTGGGGGAA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       GTGGGCGGCGGTGGTAA 1056
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                        exon 1 polymorphism 5a nucleotide sequence.
                                                                                                                                                                                                                                                                                                     (first entry)
                           98US-0094391P
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98US-00032894.
                                                      99WO-US016675
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                                                                                                                                        Location/Qualifiers replace(11,T)
/*tag= a
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Pred. No. 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
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RESULT 234
AAZ51514/c
ID AAZ51514 standard; DNA; 20 BP.
XX
AC AAZ51514;
XX
DT 03-JUL-2000 (first entry)
XX
DE Forward primer for lycopene beta
XX
Carotogenesis; tomato mutant; to
XX
W PCR primer; lycopene beta-cyclas
XX
W PCR primer; fine mapping; fruit de
XX
Carotogenesis; tomato mutant; to
XX
DX
W B1 clone; fine mapping; fruit de
XX
CAROTOGONO8920-A1.
XX
PN
W0200008920-A1.
XX
PN
V24-FEB-2000.
XX
PF
12-AUG-1999; 99WO-US018327.
XX
PR
14-AUG-1998; 98US-00134607.
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sest Local Similarity 85.0%;
Matches 17; Conservation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         molecules comprising a human UGT2B sequence polymorphism can be used in screening assays for genotyping individuals, also to predict their rate of metabolism of UGT2B substrate, potential drug-drug interactions and adverse side effects. The polymorphisms can be used as single nucleotide polymorphisms (SNPs) for detecting genetic linkage related to phenotypic variation in activity or expression of UGT2B protein. The polymorphism containing nucleic acid molecules may also be used for generating genetically modified non-human animals and for obtaining site specific gene modification in cell lines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This sequence represents a polymorphic fragment of exon 1 of the human UDP-glucuronosyltransferase 2B7 (UGT2B7) gene. UDP-glucuronosyltransferase (UGT8) are a family of enzymes that catalyse the glucuronic acid conjugation of a wide range of endogenous and exogenous gubstrates. The UGT2B gene subfamily encode steroid metabolizing isoforms in the liver. Alteration of the expression or function of UGT8 may effect drug metabolism. The invention repression or function of UGT8 may effect molecules, which comprise human UGT2B sequence polymorphisms. Probes which detect the UGT2B locus polymorphisms can be used to detect altered UGT2B metabolism of a substrate in an individual. The nucleic acid is the used to detect altered uggression of the substrate in an individual. The nucleic acid is the used to detect altered uggression of the substrate in an individual.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PCR primer; lycopene beta-cyclase; gene expression; chromogenic carotogenesis; tomato mutant; tomato; tomato introgression line B1 clone; fine mapping; fruit development; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel human UDP-glucuronosyltransferase sequence, polymorphisms for genotyping individuals to predict rate of metabolism of substrates and for identifying potential drug interactions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Galvin M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Forward primer for lycopene beta-cyclase B allele amplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 6 A; 5 C; 3 G; 6 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1632 CCTCCCTACCCTTTTGAAAA 1651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCTGGCTACACTTTTGAAAA 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 15.2; DB 1;
Pred. No. 3.6e+02;
                                                                                                                      Ronen
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                                                                                                                          Zamir
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              tissue;
IL 6-2;
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RESULT 235
AAC67142
ID AAC671
XX AAC671
XX AAC671
XX Human
XX Human
XX Homo 8
XX US6165
XX TEEE
XX US6165
XX Trans
PH Crans
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                                                                  The present invention provides antisense oligonucleotides with phosphorothicate backbones directed at the human E2F transcription 3 (E2F-3) coding sequences. These can be used in the therapy of diswhich can be treated by modulating E2F-3 expression and to prevent infection, inflammation and tumour formation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; E2F transcription factor 3; antisense; E2F-3; phosphorothioate backbone; infection; inflammation; I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New polynucleotide encoding a polypeptide having lycopene cyclase catalytic activity is useful as a probe for identifying homologous geand for controlling gene expression in chromogenic tissues of plants.
                                                                                                                                                                                                                                                                 Example 15;
                                                                                                                                                                                                                                                                                                                                                                                            Novel antisense compounds targeted to E2F transcription factor 3 diagnosis, prophylaxis and treatment of diseases associated with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US6165791-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human E2F transcription factor 3 mRNA antisense sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                              transcription
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2001-101698/11.
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17; Conserv
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                                                                                                                                                                                                                                                                 Col 41-42; 41pp; English.
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larity 85.0%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PHARM INC
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                                                                                                                                                                                                                                                                                                                                                                 factor 3
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                                                                                                                                                                                                                                                                                                                                                              such as infection,
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Pred. No. 3.6e
0; Mismatches
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                                                    The invention relates to an isolated polypeptide, comprising a variant CC form of mouse or human SAC1 polypeptide. The variant form is associated CC with altered preference for carbohydrates, other sweeteners or ethanol. CC The polypeptide and its associated DNA sequence can be produced by CC recombinant techniques and is useful for preventing obesity, diabetes or CC alcoholism associated with SAC1 expression. The sequences are useful in Screening for drugs and sweeteners. Recombinant cell lines and transgenic CC embryos may be used in screening for and identifying agents that induce CC repress function of SAC1. Predisposition to diabetes, obesity or CC alcoholism can be ascertained by testing any fluid or tissue of a human cuch as blood, pancreas or tongue) for sequence variations of the SAC1 cous may indicate a CC gene. A sequence variation of the SAC1 locus may indicate a CC diagnostic mark. The polymucleotide can be detected in a biological CC symbolism can detected. The sequences represent cDNA encoding human and CC mouse SAC1 polypeptides and PCR primers specific for the SCA1 genes
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 14; Page 80; 239pp; English.
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Ohmen JD, Reed
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28-JUL-2000; 2000US-0221419P
10-NOV-2000; 2000US-0247443P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12-MAR-2002
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MONELL CHEM SENSES CENT.
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1 DR, Ross D,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention comprises a method of separating a mixture which contains single-stranded polynucleotides. The method of the invention involves applying the mixture to a polymeric separation medium having non-polar surfaces. The non-polar surfaces are free from multivalent cations (preferably chromium, iron, nickel and/or copper) and are free to bind or interfere with the polynucleotides. The method of the invention is useful for separating a mixture that contains single-stranded polynucleotides (e.g. DNA and RNA) having lengths from 5 - 200 up to 2000 - 20000 nucleotides from impurities (e.g. failure sequences, salts and/or proteins). The method of the invention allows separation to be achieved within 10 - 30 minutes, in contrast to conventional gel chromatography which can require hours or days. The present DNA sequence represents an oligonucleotide that was used in an example of the invention
                                  AAD46040
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Separation of a mixture of single-stranded polynucleotides e.g. DNA, RNA, comprises applying the mixture to a polymeric separation medium having non-polar surfaces, and then separating the mixture.
                                                                                         AAD46040 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 16; Page 43; 91pp; English.
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                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <u>.</u>
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RESULT 239
ABZ31489
ID ABZ314
XX
AC ABZ314
XX
OT 30-JAN
DT 30-JAN
DX
Candid
XX
Candid
XX
Fungus
KW Fungus
KW Fungus
KW Prolif
XX
OS Candid
XX
XX
PN WO2002
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo
                                  WO200253728-A2
                                                                                                                                                                                                                                                                                                                                                                                         ABZ31489;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ratain MJ,
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The invention relates to an UDP-glucoronosyl transferase (UGT) enzyme, UGT287. The invention also relates to compositions and methods for optimising UGT287 substrate dosings and for predicting UGT287 substrate toxicity. The method is useful in determining the dose of a UGT287-glucuronidated drug that may be used in treating cancer patients. It is also useful in determining persons at risk for epirubicin toxicity, in reducing or eliminating side effects associated with epirubicin treatment, and in ways of increasing the efficacy of dosage regimens. The
                                               Fungus; yeast; tetracyclin; promoter; GRACE strain; biosynthesis;
signal transduction; DNA replication; cell division; growth;
proliferation; Candida albicans; fungicide; antifungal; PCR; prim
                                                                                                                                                     Candida albicans GRACE strain PCR primer SEQ ID NO 5708
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Determining the dose of a UGT2B7-glucuronidated drug for treating cancer, comprises determining the level of UGT2B7 activity or expression in a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; UDP-glucoronosyl transferase; UGT; UGT2B7; toxicity; cancer;
Candida albicans
                                                                                                                                                                                                                                                                                                                      ABZ31489 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 6 A; 5 C; 3 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       present sequence is human UGT2B7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (UYCH-) UNIV CHICAGO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1632 CCTCCCTACCCTTTTGAAAA 1651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2002-691534/74.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCTGGCTACACTTTTGAAAA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Page 54; 160pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                             (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    replace(11,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                      DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1.1%;
                                                                                                                                                                                                             entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 15.2; DB 1;
Pred. No. 3.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA fragment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Iyer L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sawyer M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                               PCR; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20
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                                                    88.
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RESULT 240
AAD35095
ID AAD350
XX AAD350
XC AAD350
XX AAD350
XX AAD350
XX BES-JUL
XX HT15-C
XX MOUSe;
KW MOUSe;
KW MEX di
KW Sperm
XX Uniden
XX Uniden
XX EP1195
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                                                                                                                                                                                                                                                                                                                                                                                                                 ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CC recombination, of a promoter replacement fragment with a heterologous componenter. (MI) is useful for constructing a strain of diploid fungal cells in which both alleles of a gene are modified. The diploid fungal CC cells in which both alleles of a gene are modified. The diploid fungal CC cells having both alleles modified are useful for identifying a gene that CC is essential to the survival or growth of a fungus, a gene that CC contributes to the virulence and/or pathogenicity of a fungus, a gene that contributes to the resistance of a diploid fungus to an antifungal agent that inhibits the growth of a diploid fungus cagent, an antifungal agent that inhibits the growth of a diploid fungus CC agent, an antifungal agent that inhibits the growth of a diploid fungus CC agent, an antifungal agent that inhibits the growth of a diploid fungus CC activity of a gene product, preferably enzymatic activity, carbon CC compound catabolism, biosynthetic, transporter, transcriptional, CC translational, signal transduction, DNA replication and cell division CC cativity. The method is useful for identifying a compound having the CC ability to inhibit growth or proliferation of C. abbicans cells and for treating infection by C. albicans invention. Note: The sequence data for this patent is not represented in the printed specification but is based CC on sequence information supplied to Derwent by the European Patent Office
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                          Unidentified
                                                                                                 Mouse; X-chromosome; germ cell less gene; gcl gene; gene diagnosis; sex discrimination; infertility treatment; chromosomal manipulation
                                                                                                                                                                                                                                                                            AAD35095 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to constructing (MI) a strain of diploid cells in which both alleles of a gene are modified, comprising one allele by insertion or replacement by a cassette having an expressible selectable marker and modifying other allele by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Constructing strains for identifying gene products as effective targets for therapeutic intervention, by inactivating in the strain one allele a gene and placing other allele of the gene under conditional expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29-DEC-2000; 2000US-0259128P.
20-FEB-2001; 2001US-00792024.
22-AUG-2001; 2001US-0314050P.
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                                                                               sperm separation; gene therapy; PCR; primer; ss.
                                                                                                                                                                                                   25-JUL-2002
                                                                                                                                                                                                                                          AAD35095
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20 BP; 0 A; 5 C; 7 G; 8 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 36; SEQ ID NO 5708; 167pp + Sequence Listing; English
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                                                                                                                                                                                                                                                                                                                                                                                                                     727 GCTGTTGCTGCCTTTGT 746
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                                                                                                                                                            downstream
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                                                                                                                                                                                                                                                                                                                                                                              GCTGCTGCTGCTGTTGT 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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                                                                                                                                                                                                   (first entry
                                                                                                                                                          PCR primer used for identification of genes
                                                                                                                                                                                                                                                                                DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Boone
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pred. No. 3.6e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Виввеу Н,
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ohlsen
                                                                                                   chromosomal manipulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 20;
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| modifying
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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                                                                                                                                                           Query Match
Best Local
                                                                                                                                                                                                                                 The present invention relates to genes located on the X-chromosome of mammals. These genes are specifically expressed in haploid cells of the testis and encode amino acid sequences having homology with the amino acid sequence encoded by drosophila germ cell less (gcl) gene. Sequences of the invention are used for gene diagnosis, discrimination of sex, separation of sperm, infertility treatment and chromosomal manipulation, especially in livestock. They are also used in gene therapy. The present DNA sequence is a PCR primer which is used for the identification of genes by differential display method
                                                                                                                                                                                                                                                                                                                                                                                                                                 New X-chromosome gene expressed in haploid cells of the testis, for gene diagnosis, discrimination of sex, separation of sperm, infertility treatment and chromosomal manipulation.
                                                                                                                                                                                                          Sequence 20 BP; 2 A; 2 C; 1 G; 15 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                   Example 1; Page 4; 28pp; English.
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ABZ79935 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2002-354153/39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Aizawa A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (LIVE-) LIVESTOCK IMPROVEMENT (UYGU-) UNIV GUNMA.
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                                                                                                1300 AATCTATTTTTTTTTTTTTTT 1319
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                                                                              1 AAGCTTTTTTTTTTTTTTTC
                                                                                                                                                             Similarity
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                                                                                                                                            Conservative
                                                                                                                                                           85.0%;
 20
 ВP
                                                                                                                                            0,
                                                                                                                                                           Score 15.2; DB 1
Pred. No. 3.6e+02
                                                                              20
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                                                                                                                                              Mismatches
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                                                                                                                                                                            DB 1; Length
                                                                                                                                              Indels
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                                                                                                                                              Gaps
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RESULT 241
ABZ79935
ID 792799
XX ABZ799
XX 19-MAY
XX Mycoba
XX Infect
XX Mycoba
XX 1-FEB
XX 12-AUG
PR 11-AUG
PR 11-AUG
PR 21-AUG
PR 11-AUG
PR 11-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mycobacterium tuberculosis; mutT2; alkA; ogt; Rv3908; mutY; Rv3 detection; multidrug resistance; multiple drug resistance; MDR; infection; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                       14-AUG-2001;
21-AUG-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              14-AUG-2002; 2002WO-EP009679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mycobacterium tuberculosis. Synthetic.
                                                                                                                                      Gicquel B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       27-FEB-2003
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                                                                                                                                                                                                                                    (INSP)
                                                                                                                                                                                                                                    INST
                                                                                                                                                                                                                                                                                                                       2001US-0311824P.
2001US-0313523P.
                                                                                                                                                                                                                                    PASTEUR
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WPI; 2003-256711/25

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RESULT 242
AAL62333
ID AAL623
XX AAL623
XX AAL623
XX O6-OCT
XX Transc
XW Transc
XW Oestro
XW Oestro
KW Oestro
KW Antise
OS Homo s
OS Homo s
OS Synthe
XX Ksy
FT modifi
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SXX
WO2003
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PN WO2003
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PD 26-JUN
XX
12-DEC
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention describes a method for predicting the epidemic CC character of a Mycobacterium tuberculosis isolate and/or a selective CC advantage to be maintained in the host and/or the acquisition of multiple CC drug resistance (MDR) by the isolate comprising detecting an alteration CC in the DNA repair system of the isolate comprising detecting an alteration of the iteration of the isolate comprising detecting an alteration of the DNA repair system of the isolate. Also described: (1) detecting a CC polynucleotide; (3) a kit for detecting Mycobacterium tuberculosis; (4) an Escherichia coli strain containing the plasmid pMYC2501; and (5) CC detecting in a patient infected by Mycobacterium tuberculosis a higher CC risk of being unable to eliminate the bacillus or of developing MDR CC tuberculosis. The method is useful for predicting the epidemic character CC of Mycobacterium tuberculosis isolate and/or a selective advantage to be maintained in the host and/or the acquisition of MDR by the isolate. CC The present sequence represents a PCR primer for M. tuberculosis mutY, which is used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 17
                   12-DEC-2002; 2002WO-US040100
                                                                                                                                                                                    modified_base
                                                                                                                                                                                                                                                           modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Transcription factor-2 gamma; TFAP2C; AP-2 gamma; AP2-gamma; AP-2.2; Stra2; activating enhancer-binding protein 2 gamma; antisense therapy; cestrogen receptor factor-1; ERF-1; hyperproliferative disorder; cancer; breast; colon; developmental disorder; human; phosphorothioate backbone;
                                                          26-JUN-2003.
                                                                                                                                                                                                                                                                                                                                                      modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens.
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           antisense;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human transcription factor-2 gamma antisense oligo,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             06-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAL62333 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 17; 83pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Predicting the epidemic character of a Mycobacterium tuberculosis isolate and/or the acquisition of multiple drug resistance (MDR) by the isolate by detecting an alteration in the DNA repair system of the isolate.
                                                                                               WO2003051308-A2
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les 17; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20 BP; 3 A; 7 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                /mod_base= OTHER
/note= "Phosphorothioate backbone; All cytidines are
methylcytidines"
                                                                                                                                          /*tag= c
/mod_base= OTHER
                                                                                                                                                                                        16. .20
                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                      mod_base= OTHER
note= "2'methoxyethyl nucleotides"
                                                                                                                                                                                                                                               *tag= b
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                                                                                                                                  "2'methoxyethyl nucleotides"
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Pred. No. 3
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    enhancer-binding protein 2 gamma, oestrogen receptor factor-1 and ERF-1. The invention is useful for inhibiting the expression of TFRP2C in cells or tissues. It is useful for treating an animal having a disease or condition associated with TFRP2C, e.g., a hyperproliferative disorder such as cancer e.g. breast cancer or colon cancer and a developmental disorder. The invention is also useful for diagnostics, therapeutics, prophylaxis and as research reagents and kits. It is also used in antisense oligonuclectide targetted to human TFAP2C DNA. This sequence is used to illustrate the method of the invention
                                                                                                                                                                                                                                                                                    Human; ss; scavenger receptor BI; SR-BI; cardiant; antilipemic; high density lipoprotein; HDL; hormone replacement therapy; postmenopausal female; cardiovascular disorder; coronary heart disease;
                                                                                                                                                                                                                                                                                                                                            Human SR-BI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New antisense compound targeted to a nucleic acid molecule encoding transcription factor-2 gamma, useful for inhibiting expression of the nucleic acid, and for treating cancer e.g. breast cancer or colon cancer.
                                                                                                         10-JUL-1997;
27-FEB-1998;
                                                                                                                                                 08-FEB-2001;
                                                                                                                                                                            06-MAR-2003
                                                                                                                                                                                                      US2003044782-A1
                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                            gangrene;
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                                                                                                                                                                                                                                                                                                                                                                                                                               ACD44978 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              for modulating the expression of transcription factor-2 gamma TFAP2C is also known as AP-2 gamma, AP2-gamma, AP-2.2, Stra2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 15; Page 80; 107pp; English.
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                                                                                                                                                                                                                                                                       atherosclerosis; stroke; ischaemia; restenosis; congestive heart failure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1636 CCTACCCTTTTGAAAATTAC 1655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           invention relates to antisense compounds, compositions and methods
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2003-569107/53.
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17; Conserv
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                                                                                                                                                                                                                                                             PCR;
                                                                                                                                                                                                                                                                                                                                            gene PCR primer
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                                                                                                                                                2001US-00779152.
                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                         97US-00890979
98US-00031626
                                                                                                                                                                                                                                                            primer.
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8
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Pred. No. 3.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             factor-2 gamma (TFAP2C)
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WPI; 2003-503489/47

Acton SL,

Mccarthy JJ;

(ACTO/)

ACTON S L. MCCARTHY J

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RESULT 244
ABZ89567
ID ABZ895
XX ABZ895
XX ABZ895
XX ABZ895
XX Human
XX Antiaa
XX Antiaa
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XX Antiaa
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to determining whether a subject has, or is at risk co of developing, an abnormally low high density lipoprotein (HDL) level, co involves determining the identity of the allelic variant of a polymorphic cregion of the SR-BI (Gcavenger receptor BI) gene of the subject, and comparing the allelic variant of the subject with allelic variants co determining whether a subject has, or is at risk of developing, a low HDL level. Also included are a kit for comparing the dentity low HDL levels. Also included are a kit for comparing the dentity low HDL levels. Also included are a kit for comparing the allelic variants of the subject has, or is at risk of developing, a low HDL level level (comprises a probe or primer which is capable of hybridising to an comparing the effect of hormone replacement therapy on the HDL level) and predicting the effect of hormone replacement therapy on the HDL level in a female subject (by identifying one or more allelic cariants of the SR-BI gene which are associated with abnormally low HDL levels in females (especially postmenopausal females), thus predicting curvels in females (especially postmenopausal females), thus predicting completely. Also disclosed are methods of treating low HDL levels and cresulting cardiovascular disorders (e.g. coronary heart disease, cand gangrene) by administering a compound that increases HDL levels, when the subject has been identified as having the common allele at residue 41 of exon 8. The present sequence is a PCR primer used to amplify an exon from the SR-BI gene
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Best Local
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                                                                 Miller
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human oligonucleotide sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17-OCT-2003
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                                                                                              Nусе JW,
                                                                                                                                                                                                                                                                                        23-APR-2002; 2002WO-US013135.
                                                                                                                                                                                                                                                                                                                                                                                                                   WO200285308-A2
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                                                                                                                                                            EPIGENESIS PHARM INC.
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                                                          Li Y, Sa
Tang L,
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nilarity 85.0%;
Conservative
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                                                                                                                                                                                                                          2001US-0286137P
                                                                                           Sandrasagra A,
                                                                 Shahabuddin
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Pred. No. 3.6e
O; Mismatches
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RESULT 245
ABZ85312/c
ID ABZ853
XX ABZ853
XX ABZ853
XX IT-OCT
XX Human
XX Antise
XX Antise
XX Antise
XX Homo s
XX Homo s
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                                                                                                                                                                                                                                                                                                                                                                     31-OCT-2002.
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                                                                                               Nусе JW,
                                                                                                                                                                                                                                24-APR-2001; 2001US-0286137P
                                                                                                                                                                                                                                                                                                 23-APR-2002; 2002WO-US013135
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                inflammation; respiratory disease; ds.
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                                                                    Sandrasagra A, K
L, Shahabuddin S;
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ABZ85667/c
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CC Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO
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Best Local :
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antisense gene therapy; respiratory; lung; adenosine sensitivity;
adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
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WPI; 2003-229219/22
                              Miller S,
                                                Nyce JW,
                                                                                                                  24-APR-2001; 2001US-0286137P
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, Tang L,
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                                              Sandrasagra A,
                                                                                 PHARM INC
                                Shahabuddin
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                                   Miller S,
                                                      Nусе JW,
                                                                                                                                      24-APR-2001; 2001US-0286137P
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Tang L,
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L, Shahabuddin
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RESULT 248
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                                                               Nyce JW,
Miller S,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human oligonucleotide sequence.
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                                                                                                                                                           EPIGENESIS PHARM INC.
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Tang
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                                                                                                  Sandrasagra A,
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Pred. No. 3.6e+02,
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Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                              ubiquinone.
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Disclosure; SEQ ID NO 5118; 872pp; English

CC first active agent comprising an oligonuclectide antisense to the conintiation codon, coding region, 5' or 3' end genomic flanking regions, CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of CC junctions of genes encoding a polypeptide associated with lung and/or CC nasal airway dysfunction and a second active agent comprising an attinflammatory steroid and ubiquinone. A composition of the invention CC antiinflammatory, antiallergic, antiasthmatic, hypotensive, CC immunosuppressive, and cytostatic activity. The composition may have a use in antisense gene therapy. The composition is useful for treating or creating a respiratory, lung or malignant disease or condition, also CC for enhancing the prophylactic or therapputic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of, or reducing sensitivity to adenosine, reducing levels of adenosine creaptor, producing bronchodilation, increasing levels of ubiquinone or lung surfactant in a subject's tissue, or treating bronchoconstriction, CC Note: The sequence data for this pattent is not represented in the printed specification, but was obtained in electronic format directly from WIPO or at ftp.wipo.int/pub/published\_pct\_sequences

20 BP; 9 A; 3 C; 7 G; 1 T; 0 U; 0 Other;

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S
                  Matches
                          Query Match
Best Local (
1530 AAGTAAAAGGGAAGGCAGGA 1549
                 l Similarity
17; Conserv
                  Conservative
                          1.1%;
85.0%;
                  0;
                          Score 15.2;
Pred. No. 3
                   Mismatches
                           DB 1;
.6e+02;
                                   Length
                   Indels
                   0,
                   Gaps
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吊 AGGTAAAAGGCAAGGCAGCA 20

ABZ91658 standard; DNA; 20

Human oligonucleotide sequence. 17-OCT-2003 (first entry)

Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antialflammatory; steroid; ubiquinone; antinflammatory; antialflammatory; gene thera antisethmatic; hypotensive; immunosuppressive; cytostatic; gene thera antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allerg Homo sapiens. inflammation; respiratory disease; ds

WO200285308-A2

31-OCT-2002.

23-APR-2002; 2002WO-US013135

24-APR-2001; 2001US-0286137P

(EPIG-) EPIGENESIS PHARM INC.

Nyce JW, Miller S, Li Y, Sang L, Sandrasagra A, Shahabuddin S Katz M Pabalan J, Aguilar

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RESULT 250
ABZ8970
XX
ABZ8977
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ABZ8977
XX
ABZ897
XX
ABZ897
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ABZ897
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Best Local 9
                                                                             Nyce JW,
Miller S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmattic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
       WPI; 2003-229219/22
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Tang L,
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                                                                         Sandrasagra A,
L, Shahabuddin
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Pred. No. 3
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ABZ89719
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                               Nyce JW,
Miller S,
                                                                                                                                                                                                                                                                                                                  antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; respiratory; lung; adenosine sensitivitvy; antisense gene therapy; respiratory; lung; adenosine sensitivitv; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
                                                                                                                                                                                                                                                                                                                                                                        Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory; antia
                                                                                                                                                                                                                                                                                                                                                                                                                              Human oligonucleotide sequence.
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                                                                                                                      24-APR-2001; 2001US-0286137P
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17; Conserv
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, Tang L,
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                                                Sandrasagra A,
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WPI; 2003-229219/22

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RESULT 252
ABD21542/c
ID ABD215
XX ABD216
XX S100 c
XX Human;
KW respir
KW surfac
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KW analge
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   Nyce JW,
Miller S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis; pulmonary transplantation rejection; ss; primer.
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                                                                                                                                                                                  24-APR-2001; 2001US-0286036P
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                                                                                                                 (EPIG-)
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mes 17; Conserv
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                                                                                                                 EPIGENESIS PHARM INC
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Li Y, Sa
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   Sandrasagra A,
L, Shahabuddin
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Pred. No. 3.
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                                         Pabalan J,
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comprising oligonucleotides, effective for alleviating comprising oligonucleotides, effective for alleviating conchoconstriction, respiratory tract inflammation, allergies and creducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, surfactant depletion or hyposecretion, when administered to a mammal. The cligonucleotides are derived from a gene encoding or regulating cypression of a target polypeptide associated with lung airway or lung diversed dysfunction or cancer and can be anti-sense to the corresponding mRNA. CC Instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, composition of the invention has antiallergic, antiinflammatory, antiasthmatic, analgesic, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The cultiformation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vascoonstriction, are susceiated compositation, allergies, asthma, impeded respiration, respiratory transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine concent of the anti-sense oligos corresponding to the oligonucleotides into products that free adenosine into the system e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it
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Best Local
                                                     Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiaflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis; pulmonary transplantation rejection; ss; primer.
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1897/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                                                         Human
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RESULT 254
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ID ABD257
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                                                                                                                                                                                                                                                                                                                                                                                                                                         CC expression of a target polypoptide associated with lung airway or lung Cd dysfunction or cancer and can be anti-sense to the corresponding mRNA. CC The invention also describes a kit, that comprises: (a) a delivery CC device, in separate containers, (b) the oligonucleotides, (c) clinstructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, cc analgesic, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or creating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to creduce the amount of target polypoptide present in the lungs. The cpulmonary obstruction, and/or bronchoconstriction and/or lung inflammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction, continuous syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary creduced adenosine content of the anti-sense oligos corresponding to the thought of the target polypoptide as pulmonary disease, pulmonary creduced adenosine content of the anti-sense oligos corresponding to the pulmonary infections, bronchitis or cancer.
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Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      comprising oligonucleotides, effective for alleviating bronchoconstriction, respiratory tract inflammation, allergies and reducing adenosine sensitivity, levels of adenosine (A) or (A) recepts surfactant depletion or hyposecretion, when administered to a mammal oligonucleotides are derived from a gene encoding or regulating
 AI085559-derived oligonucleotide SEQ ID 4809
                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                         the oligonucleotides into products that free adenosine into the system e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, prevent any unwanted effects due to it
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted nucleic acids associated with lung airway or lung dysfunction, and bronchodilating agent.
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                                    29-JUL-2004 (first entry)
                                                                           ABD25797;
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Pred. No. 3.
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Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstrictio; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension emphysema; chronic obstructive pulmonary disease; cancer; bronchitis; pulmonary transplantation rejection; ss; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                pulmonary vasoconstriction;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       pulmonary hypertension;
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Homo sapiens.

WO200285309-A2

31-OCT-2002

23-APR-2002; 2002WO-US013143

24-APR-2001; 2001US-0286036P

(EPIG-) EPIGENESIS PHARM INC

Nyce Miller Ä, Ś Li . Tang ) Ŀ, Sandrasagra A, L, Shahabuddin ŝ Katz (H) Pabalan Ç Aguilar D;

Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and bronchodilating agent.

SEQ ID NO 4809; 763pp; English.

Comprising origonucleotides, etclive for alleviating or comprising origonucleotides and consideration, respiratory tract inflammation, allergies and consuments of the control of a target polypeptide associated with lung airway or lung construction or cancer and can be anti-sense to the corresponding mRNA. The compression of a target polypeptide associated with lung airway or lung construction or cancer and can be anti-sense to the corresponding mRNA. The invention also describes a kit, that comprises: (a) a delivery construction for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, analysis, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or construction are respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the amount of target polypeptide present in the lungs. The composition comprises on and/or bronchoconstriction and/or lung inflammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction. Confilammation, allergies, asthma, impeded respiration, respiratory confilammation, emphysema, chronic obstructive pulmonary disease, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary confilammation, emphysema, chronic obstructive pulmonary disease, pulmonary confilament pain, cystic fibrosis, allergic rhinitis or cancer. Confilament pain content of the anti-sense oligos corresponding to the oligonucleotides into products that free admonsine into the system content any unwanted effects due to it comprising oligonucleotides, effective This invention describes a novel composition (a) a first active agent. any unwanted effects due ូ for alleviating

Sequence 20 B₽; œ A; 1 C; 5 <u>ი</u> 6 T; 0 Ç; 0 Other;

Query Match Best Local S Matches 17 Similarity Conservative 1.1%; 0 Score 15.2; Pred. No. 3 Mismatches 6e+02 DB Length Indels 0 Gaps 0

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RESULT 255
ABD25949
ID 289259
XX ABD259
XX Human;
KW respir
KW emphye
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Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and Ä ß Li Y, Sa , Tang L, Sandrasagra A, L, Shahabuddin Katz E, Pabalan J, Aguilar Ö

24-APR-2001; 2001US-0286036P.

(EPIG-)

EPIGENESIS PHARM INC.

23-APR-2002; 2002WO-US013143

Ħ NO 4961; 763pp; English.

CC This invention describes a novel composition (a) a first active agent, CC comprising oligonucleotides, effective for alleviating CC comprising oligonucleotides, effective for alleviating allergies and CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, CC surfactant depletion or hyposecretion, when administered to a mammal. The CC oligonucleotides are derived from a gene encoding or regulating CC expression of a target polypeptide associated with lung airway or lung CC device, in separate containers, (b) the cligonucleotides (c) adelivery CC device, in separate containers, (b) the oligonucleotides, (c) constructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, and treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The composition, allergies and/or bronchoconstriction and/or lung cinflammation, allergies and/or bronchoconstriction and/or lung cinflammation, allergies and/or bronchoconstriction are associated with a disease or condition such as pulmonary vascoonstriction. CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to thymidines present in the target RNA serves to prevent the breakdown of the charget man of the target to breakdown of

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CC This invention describes a novel composition (a) a first active agent, CC comprising oligonucleotides, effective for alleviating CC comprising oligonucleotides, effective for alleviating CC comprising oligonucleotides, effective for alleviating composition, respiratory tract inflammation, allergies and CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, CC surfactant depletion or hyposecretion, when administered to a mammal. The CC oligonucleotides are derived from a gene encoding or regulating CC expression of a target polypeptide associated with lung airway or lung CC dysfunction or cancer and can be anti-sense to the corresponding mRNA. CC The invention also describes a kit, that comprises: (a) a delivery CC device, in separate containers, (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, analgesic, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 256
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and
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17; Conserv
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Tang
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L, Shahabuddin
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This invention describes a novel composition (a) a first active agent, comprising oligonucleotides, effective for alleviating bronchoconstriction, respiratory tract inflammation, allergies and
                                                                                                                                                                                                                                 Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targunucleic acids associated with lung airway or lung dysfunction
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L, Shahabuddin
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Pred. No. 3.6e+02;
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                                                                                                                                                                                                                                        dysfunction,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Aguilar
                                                                                                                                                                                                                                                                       targeted to
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CC surfactant depletion or hyposecretion, when administered to a mammal. The CC expression of a target polypeptide associated with lung airway or lung CC dysfunction or cancer and can be anti-sense to the corresponding mRNA. CC The invention also describes a kit, that comprises: (a) a delivery CC device, in separate containers, (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or composition composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The CC inflammation, allergies and/or bronchoconstriction and/or lung cinflammation, allergies, asthma, impeded respiration, respiratory composition such as pulmonary vasoconstriction. The disease or condition such as pulmonary vasoconstriction, respiration, conditions such as pulmonary vasoconstriction. The pulmonary condition such as pulmonary vasoconstriction. The pulmonary condition such as pulmonary vasoconstriction. The pulmonary condition such as pulmonary vasoconstriction. The pulmonary conditions are associated conditions of the anti-sense oligos corresponding to the oligonucleotides into products that free adenosine into the system conditions of the anti-sense oligos corresponding to the oligonucleotides into products that free adenosine into the system condition and conditions products that free adenosine into the system conditions of the anti-sense oligos corresponding to the oligonucleotides into products that free adenosine into the system conditions of the condition of the system conditions of the condition of the system condition and conditions of the condition of the system conditions of the condition of the system conditions of the condition of
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Best Local S
Matches 17
                      Nyce JW,
Miller S,
                                                                                                                                                                                                                                                                                                                                                                   Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antisthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
                                                                                                                                                                       23-APR-2002; 2002WO-US013143
                                                                                                                                                                                                                       31-OCT-2002.
                                                                                                                                                                                                                                                                                                           Homo
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                                                                                                                                 24-APR-2001; 2001US-0286036P
                                                                                                                                                                                                                                                                WO200285309-A2
                                                                                                                                                                                                                                                                                                                                                   pulmonary transplantation rejection; ss; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AA463249-derived oligonucleotide SEQ ID 5118.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABD26106 standard; DNA;
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                                                                                        (EPIG-)
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17; Conserv
                                                                                        EPIGENESIS PHARM INC
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                      Li Y,
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                      Sandrasagra A,
L, Shahabuddin
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RESULT 259
ADH66257/c
ID ADH662
XX ADH662
XX ADH662
XX Human
XX Human
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KW Inflam
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XX phosph
XX Homo £
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XX PD 04-DE(
XX PF 20-MA)
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CC inflammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vascoonstriction.

CC inflammation, allergies, asthma, impeded respiration, respiratory confilmmation, emphysema, chronic obstructive pulmonary disease, pulmonary hyportension, emphysema, chronic obstructive pulmonary disease, pulmonary to the season of the target in the target RNA serves to prevent the breakdown of the oligonucleotides into products that free adenosine into the system of the constructive pulmonary into the system of the constructive pulmonary that the system is the constructive pulmonary th
                                                                                                                                                                                              antisense oligonucleotide; glucocorticoid receptor; infection; inflammation; tumour formation; diabetes; obesity; cardiovascular disorder; hyperlipidaemia; Cushing's syndrome; human; phosphorothioate backbone; 2'-methoxyethyl; 2'-MOE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                comprising oligonucleotides, effective for alleviating bronchoconstriction, respiratory tract inflammation, allerg reducing adenosine sensitivity, levels of adenosine (A) or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted nucleic acids associated with lung airway or lung dysfunction, and
                                                   04-DEC-2003
                                                                                                                                                                                                                                                                                                                  Human glucocorticoid receptor-specific antisense oligonucleotide #3091.
                                                                                                                                                                                                                                                                                                                                                                    25-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                   ADH66257
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This invention describes a novel composition (a) a first active agent,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 15; SEQ ID NO 5118; 763pp; English.
    20-MAY-2003; 2003WO-US016084.
                                                                                                     WO2003099215-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1530
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               standard; DNA;
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Pred. No. 3
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Mismatches
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ID ADH6

XX ADH6

XX ADH6

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XX Huma

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PT mamm

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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     to nucleic acids encoding a mammalian glucocorticoid receptor. The antisense oligonucleotides of the invention are useful for preventing or delaying infection, inflammation or tumour formation. The antisense oligonucleotides are also useful for treating diabetes, obesity, cardiovascular disorders, hyperlipidaemia or Cushing's syndrome. The present DNA sequence represents an antisense oligonucleotide that targets the human glucocorticoid receptor gene. NOTE: The present sequence contains 2'-methoxyethyl (2'-MOE) wings and a phosphorothicate backbone.
                                                                                                                                                                                                                                                                                                                                                             antisense oligonucleotide; glucocorticoid receptor; infection; inflammation; tumour formation; diabetes; obsesity; cardiovascular disorder; hyperlipidaemia; Cushing's syndrome; human; phosphorothioate backbone; 2'-methoxyethyl; 2'-MOE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New antisense compound targeted to a nucleic acid molecule encoding mammalian glucocorticoid receptor, useful for treating diabetes, obcardiovascular disorder, hyperlipidemia or Cushing's syndrome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI;
                                           New antisense compound targeted to a nucleic acid molecule encoding mammalian glucocorticoid receptor, useful for treating diabetes, obesity, cardiovascular disorder, hyperlipidemia or Cushing's syndrome.
                                                                                                                                                                                                                                                                     04-DEC-2003
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                                                                                                                                          Crosby
                                                                                                                                                                                                        20-MAY-2002; 2002US-0381857P
                                                                                                                                                                                                                                     20-MAY-2003;
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                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                           Human
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                                                                                                            2004-035034/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                           glucocorticoid receptor-specific antisense oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4; SEQ ID NO 3091; 985pp; English.
                                                                                                                                          SD,
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17; Conserv
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Pred. No. 3.6e
0; Mismatches
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ij

NO 3214;

985pp; English

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RESULT 261
ADH67400 c
ID ADH67400;
XX
AC ADH67400;
XX
DE Human gluc
XX
Antisemete
KW inflammate
KW cardiovas;
XX
Cardiovas;
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PM W02003099;
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                                                                                                                                                                            to nucleic acids encoding a mammalian glucocorticoid receptor. The antisense oligonucleotides of the invention are useful for preventing or delaying infection, inflammation or tumour formation. The antisense oligonucleotides are also useful for treating diabetes, obesity, cardiovascular disorders, hyperlipidaemia or Cushing's syndrome. The present DNA sequence represents an antisense oligonucleotide that targets the human glucocorticoid receptor gene. NOTE: The present sequence contains 2'-methoxyethyl (2'-MOE) wings and a phosphorothioate backbone.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New antisense compound targeted to a nucleic acid molecule encoding mammalian glucocorticoid receptor, useful for treating diabetes, obesity, cardiovascular disorder, hyperlipidemia or Cushing's syndrome.
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inflammation; tumour formation; diabetes; obesity;
cardiovascular disorder; hyperlipidaemia; Cushing's syndrome; human;
phosphorothioate backbone; 2'-methoxyethyl; 2'-MOE.
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                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention comprises an antisense oligonucleotides that are targeted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 4; SEQ ID NO 4234; 985pp; English.
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y Match 1.1%;
Local Similarity 85.0%;
hes 17; Conservative
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                                                                                                                           G; 18 T; 0 U;
Score 15.2; DB 1; Length 20; Pred. No. 3.6e+02; O; Mismatches 3; Indels
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Pred. No. 3.6e+02
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RESULT 262
ADH66542/C
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RESULT 263
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention comprises an antisense oligonucleotides that are targeted to nucleic acids encoding a mammalian glucocorticoid receptor. The antisense oligonucleotides of the invention are useful for preventing or delaying infection, inflammation or tumour formation. The antisense oligonucleotides are also useful for treating diabetes, obesity, cardiovascular disorders, hyperlipidaemia or Cushing's syndrome. The present DNA sequence represents an antisense oligonucleotide that targets the human glucocorticoid receptor gene. NOTE: The present sequence contains 2'-methoxyethyl (2'-MOE) wings and a phosphorothicate backbone.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New antisense compound targeted to a nucleic acid molecule encoding mammalian glucocorticoid receptor, useful for treating diabetes, ob cardiovascular disorder, hyperlipidemia or Cushing's syndrome.
                                                                                                                                                                                        ADJ46173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 20
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                                                                                                                                                                                           DNA;
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Pred. No. 3.6e+02;
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Human CD36L1 genotyping PCR primer #16.

06-MAY-2004

(first entry)

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CC region of the CD36L1 gene (scavenger receptor class B type 1) that is considered with abnormally high TG levels or TG:HDL-C ratios. Also conclude are a method of diagnosing or aiding in the diagnosis of abnormally high TG level or TG:HDL-C ratio in a subject, a method for CC alhelic variants of a CD36L1 gene, a kit for determining whether a containing a probe or primer capable of CC subject has, or is at risk of developing, abnormally high TG level or an CC abnormally high TG:HDL-C ratio (comprising a probe or primer capable of CC hybridishing to a polymorphic region of a CD36L1 gene and identifying CC whether the CD36L1 gene contains an allelic variant of a polymorphic region associated with abnormally high TG level or TG:HDL-C ratio, and CC instructions for use), a method for predicting the effect of hormone CC repion associated with abnormally high TG level or TG:HDL-C ratio, and CC instructions for obtaining shological information system for assessing a subject's risk for Ceveloping an abnormally high TG level or TG:HDL-C ratio (comprising CC means for obtaining biological information from the individual to obtain CC profile as digital molecular data, means for electronically processing CC means for obtaining biological information from the individual to obtain CC profile as digital molecular data, means for electronically processing CC means for obtaining an abnormally high TG level or TG:HDL-C ratio and means CC for developing an abnormally high TG level or TG:HDL-C ratio and means CC for developing an abnormally high TG level or TG:HDL-C ratio, where the CC processing an abnormally high TG level or TG:HDL-C ratio), a computerised method of providing medical advice to a subject, a method CC for a health care provider to generate a personal health assessment creport for a health care provider to generate a personal health assessment conditions. The provider to generate a personal health of an method condition of the method of provider associated with abnormal lipid conditions. The present conditions of 
The invention relates to determining whether a subject has, or is at ris of developing, abnormally high triglyceride (TG) level or an abnormally high TG:high density lipoprotein cholesterol (HDL-C) ratio, comprises determining whether the subject has an allelic variant of a polymorphic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Determining the presence of abnormally high triglyceride (TG) level or TG:high density lipoprotein cholesterol ratio comprises determining if the subject has an allelic variant of a polymorphic region of the CD36L1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; ss; PCR; scavenger receptor class B type 1; CD36L1; coronary artery disease; atherosclerosis; cardiovascular disease; myocardial infarction; stroke; gangrene; high density lipoprotein; HDL; TG; triglyceride; diabetes; obesity; metabolic disorder; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; SEQ ID NO
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Query Match Best Local 9

Local Similarity

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Score 15.2 Pred. No.

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Length 20;

RESULT 265 ADK81318/c ID ADK813

ADK81318 standard;

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Sequence 20

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                                                                                                                                                   The present invention relates to an antisense compound targeted to a nucleic acid molecule encoding Navl.3, where the antisense compound specifically hybridizes with and inhibits the expression of Navl.3. The compound and composition are useful for treating a disease or condition associated with Navl.3, e.g. pain including but not limited to neuropathic pain, post-herpetic neuralgia, chronic pain, lower back pain, diabetic neuropathy, trigeminal neuropathy, arthritic pain, acute pain, pain from burns, migraine headache, cluster headache, mild-to-moderate headache, seizure disorder such as childhood seizure disorder, including but not limited to neonatal or infantile epilepsy; or ataxia. The present sequence represents a chimeric phosphorothicate oligonucleotide with 2'MOE wings and a deoxy gap. Used during the antisense inhibition of human Navl.3 expression, the oligonucleotides are designed to target different regions of the human Navl.3 RNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nav1.3; Analgesic; Nootropic; Neuroprotective; post-herpetic neuralgia; diabetic neuropathy; arthritic pain; migraine headache; infantile epilepsy; ataxia; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                             New antisense compound targeted to a nucleic acid molecule encoding Nav1.3, useful for useful for treating a disease or condition associated with Nav1.3, e.g. pain, seizure disorder such as childhood seizure
                                                                                                                          Sequence 20 BP; 1 A; 2 C; 1 G; 16 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                               Claim 4; SEQ ID NO 1135; 417pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                            with Nav1.3, e.g. pain, seizure disorder, or ataxia.
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RESULT 266
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                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to an antisense compound targeted to a nucleic acid molecule encoding Navl.3, where the antisense compound specifically hybridizes with and inhibits the expression of Navl.3. The compound and composition are useful for treating a disease or condition associated with Navl.3, e.g. pain including but not limited to neuropathic pain, post-herpetic neuralgia, chronic pain, lower back pain, diabetic neuropathy, trigeminal neuropathy, arthritic pain, acute pain, pain from burns, migraine headache, cluster headache, mild-to-moderate headache; seizure disorder such as childhood seizure disorder, including but not limited to neonatal or infantile epilepsy; or ataxia. The present equence represents a chimeric phosphorothoate oligonucleotide with 2'MOE wings and a deoxy gap. Used during the antisense inhibition of human Navl.3 expression, the oligonucleotides are designed to target different regions of the human Navl.3 RNA.
Nav1.3; Analgesic; Nootropic; Neuroprotective; post-herpetic neuralgia; diabetic neuropathy; arthritic pain; migraine headache; infantile epilepsy; ataxia; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New antisense compound targeted to a nucleic acid molecule encoding Nav1.3, useful for useful for treating a disease or condition associated with Nav1.3, e.g. pain, seizure disorder such as childhood seizure disorder, or ataxia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nav1.3; Analgesic; Nootropic; Neuroprotective; post-herpetic neuralgia; diabetic neuropathy; arthritic pain; migraine headache; infantile epilepsy; ataxia; ss.
                                                                    Chimeric
                                                                                                     20-MAY-2004
                                                                                                                                                                     ADK74442 standard;
                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 4;
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                                                                                                                                    ADK74442
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14-AUG-2003; 2003WO-US025465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO2004016754-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chimeric phosphorothioate oligonucleotide to target Nav1.3 #8652
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-MAY-2004
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                                                                                                                                                                                                                                                                                                                                       Local
                                                                                                                                                                                                                                                                                        1248
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                                                                                                                                                                                                                                                     20
                                                                                                                                                                                                                                                                                                                      l Similarity
17; Conserv
                                                                    phosphorothicate oligonucleotide to target Nav1.3
                                                                                                                                                                                                                                                                         TTTGTTTTGTTTTTTAATCA 1267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 8652; 417pp; English.
                                                                                                                                                                                                                                                       TIGCTITIGATITITAATCA 1
                                                                                                                                                                                                                                                                                                                                                                                        BP; 12 A; 2 C; 2 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                   (first entry)
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                                                                                                                                                                     DNA;
                                                                                                                                                                                                                                                                                                                                       85.0%;
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                                                                                                                                                                                                                                                                                                                                       Score 15.2; DB 1; Pred. No. 3.6e+02;
                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                       DB 1; Length 20;
                                                                                                                                                                                                                                                                                                                      Indels
                                                                     #1776
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RESULT 267
ADK78029
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  associated with Navl.3, e.g. pain including but not limited to neuropathic pain, post-herpetic neuralgia, chronic pain, lower back pain, diabetic neuropathy, trigeminal neuropathy, arthritic pain, lower back pain, pain from burns, migraine headache, cluster headache, mild-to-moderate headache; seizure disorder such as childhood seizure disorder, including but not limited to neonatal or infantile epilepsy; or ataxia. The present sequence represents a chimeric phosphorothicate oligonucleotide with 2'MOE wings and a decayy gap. Used during the antisense inhibition of human Navl.3 expression, the oligonucleotides are designed to target different regions of the human Navl.3 RNA.
                                                                                                                                                                            Nav1.3; Analgesic; Nootropic; Neuroprotective; post-herpetic neuralgia; diabetic neuropathy; arthritic pain; migraine headache;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to an antisense compound targeted to a nucleic acid molecule encoding Navl.3, where the antisense compound specifically hybridizes with and inhibits the expression of Navl.3. The compound and composition are useful for treating a disease or condition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New antisense compound targeted to a nucleic acid molecule encoding Nav1.3, useful for useful for treating a disease or condition associated with Nav1.3, e.g. pain, seizure disorder such as childhood seizure disorder, or ataxia.
14-AUG-2002; 2002US-0403416P
                              14-AUG-2003; 2003WO-US025465.
                                                                26-FEB-2004.
                                                                                              WO2004016754-A2
                                                                                                                            Synthetic
                                                                                                                                                            infantile
                                                                                                                                                                                                                           Chimeric phosphorothioate oligonucleotide to target Navl.3 #5363
                                                                                                                                                                                                                                                                                             ADK78029;
                                                                                                                                                                                                                                                                                                                           ADK78029 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 4; SEQ ID NO 1776; 417pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2004-203785/19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Roberds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-AUG-2002; 2002US-0403416P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14-AUG-2003; 2003WO-US025465.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic
                                                                                                                                                                                                                                                           20-MAY-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                         1518 TTAAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                                                                                                          20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1.1%; Score 15.2;
Similarity 85.0%; Pred. No. 3.
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                                                                                                                                                           neuropathy; arthritic pain; migraine e epilepsy; ataxia; ss.
                                                                                                                                                                                                                                                                                                                                                                                                         TCAMAMAAAAAAAAAAAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BP; 1 A; 0 C; 1 G; 18 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                         (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 20;
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RESULT 268
ADL59022
ID ADL590
XX ADL590
XX ADL590
XX CHUMAN
AC CYTOSK
KW GENE KW GENE KW ESM-1
KW ANGIOG
KW NEWN-1
KW ANGIOG
KW ANGIOG
KW NEWN-1
KW ESM-1
KW
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention relates to an antisense compound targeted to a nucleic acid molecule encoding Navl.3, where the antisense compound specifically hybridizes with and inhibits the expression of Navl.3. The compound and composition are useful for treating a disease or condition associated with Navl.3, e.g. pain including but not limited to neuropathic pain, post-herpetic neuralgia, chronic pain, lower back pain, diabetic neuropathy, trigeminal neuropathy, arthritic pain, acute pain, pain from burns, migraine headache, cluster headache, mild-to-moderate headache, seizure disorder such as childhood seizure disorder, including but not limited to neonatal or infantile epilepsy; or ataxia. The present sequence represents a chimeric phosphorothicate oligonucleotide with 2'MOE wings and a deoxy gap. Used during the antisense inhibition of human Navl.3 expression, the oligonucleotides are designed to target different regions of the human Navl.3 RNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cytostatic; antidiabetic; immunomodulator; cardiant; neuroprotective; gene therapy; endothelial specific molecule; ESM-1; ESM-1; diabetes; cancer; ischaemia; reperfusion injury; angiogenic disorder; immunological disorder; cardiovascular disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New antisense compound targeted to a nucleic acid molecule encoding Nav1.3, useful for useful for treating a disease or condition associated with Nav1.3, e.g. pain, seizure disorder such as childhood seizure
                                                                                                          modified_base
                                                                                                                                                                                                                                                                                                                                                                modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human ESM-1 antisense oligonucleotide segid 1271.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   03-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADL59022 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          disorder, or ataxia.
                                                                                                                                                                                                                           modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          neurological disorder; antisense technology; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (PHAA ) PHARMACIA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1165 AGTATTTGTTGAAATAGTGA 1184
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                /note= '
                                                         /mod_
                                                                                                                                                                                                                                                        residues are
                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                       /mod_base= OTH
/note= "OTHER=
                                                                                                                                                                                                                                                        note= "OTHER= phosphorothioate residues are 5-methylcytidines"
                                                                                                                                                                                                                                                                                                            mod
                               note=
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                                                            base= OTHER
                                                                                                                                                                                                                                                                                                               base= OTHER
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                                  "OTHER=
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                                                                                                                            OTHER
HER= 2'-methoxyethyl
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Pred. No. 3.6e+02
                               2'-methoxyethyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1; Length 20;
                                  (2'-MOE)
                                                                                                                                             (2'-MOE)
                                                                                                                                                                                                                                                                                     backbone.
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                               nucleotides"
                                                                                                                                             nucleotides"
                                                                                                                                                                                                                                                                                     All cytidine
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RESULT 269
ADM15109/c
ID ADM151
XX ADM151
XX ADM151
XX Chimer
XX Chimer
KW micros
KW micros
KW micros
KW neurop
KW neurop
KW reperf
KW r
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                                                                                                                                                                                                                                                                                                                                                                                        chimeric; antisense oligonucleotide; phosphorothioate; human; microsomal prostaglandin E2 synthase; mPGES-1; mPGES-1 inhibitor; microsomal prostaglandin E2 synthase; thipbitor; cytostatic; antidiabetic; immunomodulator; cardiant; neuroprotective; antiinflammatory; neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological; immunomodulatory; cardiovascular; gene therapy; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention describes a new antisense compound, having a sequence comprising 8-30 bp targeted to a nucleic acid encoding endothelial specific molecule-1 (ESM-1), that specifically hybridises with the nucleic acid ESM-1 and inhibits its expression. Also described are: a composition; inhibiting the expression of ESM-1 in cells or tissues; and treating an animal having a disease or condition associated with ESM-1. The compound is useful for preparing a composition for treating diabetes, cancer, isoshaemia or reperfusion injury, or angiogenic, immunological, cardiovascular or neurological disorder. This sequence represents an antisense oligonucleotide that can be used to modulate expression of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New antisense compound, having a sequence targeted to encoding endothelial specific molecule-1 (ESM-1), used composition for treating e.g., diabetes, cancer or can
                                                                                                                                                                                                             Homo sapiens.
Synthetic.
                                                                                                                                                                                                                                                                                                    Alzheimer's disease; arthritis; diabetes; cancer; ischaemia; reperfusion injury; ophthalmic disorder; immunological disorder; cardiovascular disorder; neurological disorder; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human mPGES-1 chimeric antisense oligonucleotide SEQ ID NO:1296.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADM15109;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20 BP; 8 A; 5 C; 1 G; 6 T; 0 U; 0 Other;
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                                                                                                                      modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADM15109 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             endothelial specific molecule-1 (ESM-1).
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   /mod_base= OTHER
/note= "phosphorothioate linkages
residues are 5-methylcytidines"
                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0,
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Pred. No. 3
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RESULT 270
ADM15020/c
ID ADM15020/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present sequence represents a chimeric antisense oligonucleotide CC targeted to human microsomal prostaglandin E2 synthase (mPGES-1). The CC human mPGES-1 gene is located on chromosome 9, more specifically to CC 9q34.3. The present invention also describes: (1) antisense compounds, CC having a sequence comprising 8-30 bp targeted to a nucleic acid encoding CC mPGES-1, which specifically hybridise with the nucleic acid encoding CC mPGES-1 in cells or tissues, and (3) a method of inhibiting the expression of CC mPGES-1 in cells or tissues, and (3) a method of treating an animal CC may a disease or condition associated with mPGES-1. MPGES-1 chimeric CC antisense oligonucleotides and antisense compounds have cytostatic, CC antisense oligonucleotides and antisense compounds have cytostatic, CC antisense or condition associated with mPGES-1 chimeric CC ophthalmological, immunomodulator, cardiant, neuroprotective, and cardiovascular activities, and can CC be used as mPGES-1 inhibitors and in gene therapy. The antisense compound CC can be used for preparing a composition for treating a disease or condition associated with mPGES-1 e.g., inflammation, Alzheimer's CC condition associated with mPGES-1 e.g., inflammation, Alzheimer's condition for treating a disease or conditions associated with mPGES-1 e.g., inflammation, Alzheimer's conditions of the condition injury, or conditions of the condition of treating a disease or conditions of the condition of treating a disease or conditions of the condition of treating a disease or conditions associated with mPGES-1 e.g., inflammation, Alzheimer's conditions of the condition of treating a disease or conditions of the condition of treating a disease or conditions of the condition of treating a disease or conditions of the condition of treating a disease or conditions of the condition of treating a disease or conditions of the condition of t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 17
chimeric; antisense oligonucleotide; phosphorothioate; human;
microsomal prostaglandin E2 synthase; mPGES-1; mPGES-1 inhibitor;
microsomal prostaglandin E2 synthase inhibitor; cytostatic; antidiabetic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New antisense compound, having a sequence targeted to a nucleic acid encoding mPGES-1, useful for preparing a composition for treating e.ginflammation, Alzheimer's disease, arthritis, diabetes, cancer or
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                                                                                                                                                                                                                                  01-JUL-2004
                                                                                                                                                        Human mPGES-1 chimeric antisense oligonucleotide SEQ
                                                                                                                                                                                                                                                                                                                ADM15020
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TTTTTTTTTCCAAGACAGA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    immunological, cardiovascular or neurological disorder.
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                                                                                                                                                                                                                                  (first entry)
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/mod_base= OTHER
/note= "2'-O-methocyethyls"
16. 20
/*tag= C
/mod_base= OTHER
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                                                                                                                                                                                                                                                                                                                                                                                          DNA;
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Pred. No. 3.6e+02;
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The present sequence represents a chimeric antisense oligonucleotide cc targeted to human microsommal prostaglandin E2 synthase (mpGES-1). The CC human mpGES-1 gene is located on chromosome 9, more specifically to 934.3. The present invention also describes: (1) antisense compounds, CC having a sequence comprising 8-30 bp targeted to a nucleic acid encoding CC mpGES-1, which specifically hybridise with the nucleic acid encoding CC mpGES-1 in cells or tissues; and (3) a method of treating an animal CC having a disease or condition associated with mpGES-1. MpGES-1 chimeric CC antisense oligonucleotides and antisense compounds have cytostatic, CC antidiabetic, immunomodulator, cardiant, neuroprotective, antistiabetic, vasotropic, ophthalmological, immunomodulatory and cardiovascular activities, and can be used for preparing a composition for treating a disease or condition associated with mpGES-1 e.g., inflammation, Alzheimer's CC condition associated with mpGES-1 e.g., inflammation, Alzheimer's component of the propersusion injury, or condition associated with mpGES-1 e.g., inflammation, Alzheimer's component of the condition injury, or condition associated with mpGES-1 e.g., inflammation, Alzheimer's component of the condition injury, or condition associated with mpGES-1 e.g., inflammation, Alzheimer's component of the condition injury, or condition associated with mpGES-1 e.g., inflammation, Alzheimer's component of the condition injury, or condition associated with mpGES-1 e.g., inflammation, Alzheimer's component of the condition injury, or condition condition injury, or condition injury condition injury condition injury condition injury condition in
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neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological;
immunomodulatory; cardiovascular; gene therapy; inflammation;
Alzheimer's disease; arthritis; diabetes; cancer; ischaemia;
reperfusion injury; ophthalmic disorder; immunological disorder;
cardiovascular disorder; neurological disorder; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New antisense compound, having a sequence targeted to a nucleic acid encoding mPGES-1, useful for preparing a composition for treating e. inflammation, Alzheimer's disease, arthritis, diabetes, cancer or
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ophthalmic,
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immunological, cardiovascular or neurological disorder
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16. .20
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residues are 5-methylcytidines"
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/note= "2'-O-methocyethyls"
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/note= "2'-O-methoxyethyls"
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S

Matches Query Match Best Local

l Similarity 17; Conserv

Conservative

0

1.1%;

Score 15.2; Pred. No. 3. Mismatches

.6e+02 BB

Length Indels

0

Gaps

0

Sequence

20 B₽;

11 A; 2 C; 3 G; 4 T; 0 U; 0 Other;

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ADM15905/c
ID ADM159
AC MOUSE;
KW MOUSE;
PA (CHAT);
PA (
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                                                        comprising contacting a polynucleotide in a biological sample with a probe where the probe hybridises to a SAC1 polynucleotide to form a composition complex and detecting the hybridisation complex, a method of identifying susceptibility to obesity or diabetes comprising comparing the nucleotide sequence of the suspected SAC1 allele with a wild type nucleotide sequence, where the difference between the suspected allele and the wild-type sequence identifies a sequence variation of the SAC1 nucleotide sequence, and a method of treating or preventing obesity, diabetes or alcoholism associated with expression of SAC1, comprising administering to a subject a pharmaceutical composition and a transgenic animal that carries an altered SAC1 allele. The methods and compositions of the invention are useful for screening drugs for inhibition or restoration of gene function as antidiabetic, antiobesity or antialcohols consumption therapies and for identifying sweeteners and alcohols. This sequence represents a PCR primer used to amplify murine SAC1 DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to SAC1 polypeptides and the polynucleotides encoding them. The polynucleotides contain a variation associated with sensing carbohydrates, other sweeteners or ethanol. The invention also relates to a method for analysing a biomolecule in a biological sample, comprising altering SAC1 activity in the sample and measuring the activity, a method for analysing a polynucleotide in a biological sample,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New isolated polynucleotides for sensing carbohydrates, other sweeten or ethanol, useful for screening drugs for inhibition or restoration gene function as antidiabetic, antiobesity or antialcohol consumption
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Ross DA, Ohman JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2004-340133/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-APR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mouse; SAC1; PCR; ss; diabetes; alcoholism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Murine SAC1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15-JUL-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (OHMA/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25-OCT-2002; 2002US-00280183.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-OCT-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US2004081964-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (ROSS/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BACH/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REED D R.
TORDOFF M G.
NOSS D A.
OHMAN J D.
CHATTERJEE A.
DE JONG P J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BACHMANOV A
BEAUCHAMP G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTTTTTTTTCCAAGACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA PCR primer #170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2002US-00280183.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Beauchamp GK, Li S,
an JD, Chatterjee A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NO 175; 148pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             carbohydrate;
antidiabetic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20
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alcohol; anorectic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         De
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Li X,
De Jong
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Reed DR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    other sweeteners
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                obesity;
antialcoholic;
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RESULT 272
ADN06744/c
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The present invention describes using a leukotriene synthesis inhibitor (1) for the manufacture of a medicament for the treatment of myocardial infarction or susceptibility to myocardial infarction in an individual. Also described is a method (MI) for the treatment of acute coronary syndrome (ACS) in an individual comprising administering (I). (I) has antiatherosclerotic, cardiant and antianginal activities, and can be used as a leukotriene biosynthesis inhibitor, and a leukotriene receptor antagonist. (I) can be use for the manufacture of a medicament for the treatment of myocardial infarction or susceptibility to myocardial infarction in an individual who has at least one risk factor chosen from an t-risk haplotype for myocardial infarction, an at-risk haplotype in the 5-lipoxygenase activating protein (FLAP) gene, a polymorphism in a FLAP nucleic acid and an at-risk polymorphism in the 5-lipoxygenase (5-CC LO) gene promoter; in an individual who has at least one risk factor chosen from diabetes, hypertension, hypercholesterolaemia, elevated inflammatory marker chosen from C-reactive protein (RPP), serum amyloid inflammatory marker chosen from C-reactive protein (RPP), serum amyloid tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   acute coronary syndrome; antiatherosclerotic; cardiant; antianginal; leukotriene biosynthesis inhibitor; leukotriene receptor antagonist; 5-lipoxygenase activating protein; FLAP; human ; chromosome 13; chromosome 13q12; polymorphism; 5-lipoxygenase gene promoter; 5-LO gene promoter; diabetes; hypertension; hypercholesterolaemia; obesity; inflammatory marker; low density lipoprotein; cholesterol; high density lipoprotein; angina; atherosclerosis; microsatellite marker;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20 BP; 9 A;
                                                                                                                                                                                                                                                                                                                                                                                           Use of leukotriene synthesis inhibitor for manufacture of a medicament for treatment for myocardial infarction or susceptibility to myocardial infarction in individual.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADN06744 standard;
                                                                                                                                                                                                                                                                                                                                                        Disclosure; SEQ ID NO 394; 306pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Helgadottir A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-OCT-2002; 2002US-0419433P
21-FEB-2003; 2003US-0449331P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human FLAP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADN06744;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16-OCT-2003; 2003WO-US032556
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       leukotriene synthesis inhibitor; myocardial infarction;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2004-357211/33.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   808 CTGAATTTTGTGTTTGCATC 827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20 CGGATTTTTGTGTGTGCATC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           related microsatellite marker SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENETICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gurney ME, Gulcher JR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1.1%;
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Pred. No. 3.6e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ID NO:394.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length
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RESULT 273
ADN58960
ADN58960
XX
AC ADN589
XX
DT 12-AU
XX
Human
XX
B7H;
XX
Homo
XX
OS Homo
XX
PD 27-P
XX
XX
PR 23-!
XX
PR 
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     soluble intervascular adhesion molecule (sICAM), E-selectin, matrix metalloprotease type-1, matrix metalloprotease type-2, matrix metalloprotease type-3, and matrix metalloprotease type-9; in an individual having increased low density lipoprotein (LDL) cholesterol and/or decreased high density lipoprotein (HDL) cholesterol; in an individual having increased leukotriene synthesis; in an individual having previous myocardial infarction or acute coronary syndrome (ACS) event, stable angins; or in an individual who has atherosclerosis or who requires treatment to restore blood flow in arteries. (M1) is useful for treating an individual suffering from acute coronary syndrome chosen from unstable angina, non-ST-elevation myocardial infarction (NSTEMI) and ST-elevation myocardial infarction (STEMI). The human FLAP gene is located on chromosome 13, more specifically to 13q12. The present sequence represents a microsatellite marker used in the exemplification of the
                                                                 The invention relates to a compound targeted to a nucleic acid molecule encoding B7H, where the compound specifically hybridises with the nucleic acid molecule encoding B7H and inhibits the expression of B7H. The compound is useful for modulating the expression of B7H. It is also useful for diagnosing or treating diseases associated with expression of B7H, e.g. an autoimmune disease. The present sequence represents a human B7H target sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                New compound targeted to a nucleic acid molecule encoding B7H and inhibits expression of B7H, useful for modulating the expression or for diagnosing or treating, e\cdot g\cdot autoimmune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2004-399728/37.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Monia BP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             23-NOV-2002; 2002US-00303420.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       B7H; autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human B7H target sequence ISIS 123577.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADN58960 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                present invention.
      Sequence 20 BP; 2 A; 4 C; 9 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                         Example 16; SEQ ID NO 211; 97pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               23-NOV-2002; 2002US-00303420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     27-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US2004102398-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           12-AUG-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      necrosis factor-alpha, soluble vascular cell adhesion molecule (sVCAM),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            546 GTGGGTGCGTGCGT 565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20 BP; 9 A; 10 C; 1 G; 0 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTGTGTGTGTGTGCGT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Dobie KW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       disease; ss; human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ..
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Pred. No. 3.6e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1; Length 20;
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Query Match

1.1%;

Score 15.2;

DB 1;

Length 20;

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RESULT 274
ADN58812/c
ID ADN588
XX ADN588
XX ADN588
XX ADN588
XX B7H; a
XX B7H; a
XX B7H; a
XX US2004
XX US1S-
XX Monia
XX WPI; i
XX WPI; i
CC Componic
CC useful
CC B7H ai
                                                                                                                     RESULT 275
ADP78311/c
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Best Local
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                                                                                                                                                                                                                                                                                                                             The invention relates to a compound targeted to a nucleic acid molecule encoding B7H, where the compound specifically hybridises with the nucleic acid molecule encoding B7H and inhibits the expression of B7H. The compound is useful for modulating the expression of B7H. It is also useful for diagnosing or treating diseases associated with expression of B7H, e.g. an autoimmune disease. The present sequence represents a human
                                                                                                                                                                                                                                                                                                                                                                                                                                                    New compound targeted to a nucleic acid molecule encoding B7H and inhibits expression of B7H, useful for modulating the expression of B7H or for diagnosing or treating, e.g. autoimmune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Monia BP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     27-MAY-2004.
GFAT; Antidiabetic; Cardiant;
                        Chimeric phosphorothioate oligonucleotide
                                                     12-AUG-2004
                                                                              ADP78311;
                                                                                                          ADP78311
                                                                                                                                                                                                                                                                                       Sequence 20 BP; 5 A; 9 C; 4 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                 B7H antisense oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                             Example 15; SEQ ID NO 63; 97pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23-NOV-2002; 2002US-00303420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23-NOV-2002; 2002US-00303420
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human B7H antisense oligonucleotide ISIS 205923
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADN58812;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADN58812 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    autoimmune
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                                                                                                                                                                                                                                                Similarity
                                                                                                          standard; DNA;
                                                                                                                                                                             AGGTGCCTGGGCTGTGAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Dobie KW;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     disease; ss;
                                                   entry)
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Pred. No. 3.
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0; Mismatches 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     antisense; human
                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                              3.6e+02;
3;
                                                                                                                                                                                                                                                               DB 1;
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                                                                                                                                                                                                                                                           Length 20;
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RESULT 276
ADP6305/C
ID ADP633
XX ADP633
XX O9-SEP
XX U9-SEP
XX Human
XX human;
XW insuli
KW inmuno
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                                                                                                                                                                                                                                                                   The present invention relates to a compound which specifically hybridizes with a nucleic acid molecule encoding GFAT, and inhibits the expression of GFAT. Specifically claimed are antisense oligonuclectides capable of modulating the expression of GFAT, and which comprise any of the 3063 sequences of 20 base pairs, given in the specification. The compound, composition and methods are useful for treating a disease or condition associated with GFAT, such as a disease or condition, e.g. diabetes, a cardiovascular or neurological disorder, ischemia/reperfusion injury. They are also useful in research and diagnostics for modulating the expression of GFAT. The present sequence represents a chimeric phosphorothicate oligonuclectide with 2-MOE wings and a deoxy gap, these oligonuclectides inhibit human GFAT expression.
human; antisense oligonucleotide; mitochondrial membrane; insulin sensitising antidiabetic thiazolodinediones; mitoNEET; diabetes; immunological disorder; cardiovascular disorder; including hypertension;
                                           Human mitoNEET-specific antisense oligonucleotide #199
                                                                   09-SEP-2004
                                                                                       ADP69305
                                                                                                            ADP69305
                                                                                                                                                                                                                                                  Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                Claim 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                           New compounds, particularly antisense oligonucleotides targeted to a nucleic acid encoding glutamine-fructose-6-phosphate amidotransferase (GFAT), for treating diabetes, a cardiovascular or neurologic disorder,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2004-348453/32.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17-OCT-2002; 2002US-0419268P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          02-OCT-2003; 2003WO-US033332.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-APR-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       reperfusion;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Glutamine-fructose-6-phosphate amidotransferase; diabetes; ischemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                     ischemia/reperfusion injury.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (PHAA)
                                                                                                                                                                                                                    Local
                                                                                                                                                                                     1246
                                                                                                                                                                                                          l Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PHARMACIA CORP.
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                                                                                                                                                                                      TCTTTGTTTTGTTTTTAAT 1265
                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 2110; 175pp; English.
                                                                                                            standard;
                                                                                                                                                                  TTTCTGTTTTGTTTTAAAT 1
                                                                                                                                                                                                                                                  BP; 14 A; 2 C; 1 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Crosby SD;
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                                                                 (first entry)
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/note= "2-methoxyethyl wing"
17. .20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            note= "2-methoxyethyl wing"
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                                                                                                            DNA;
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Pred. No. 3.6e+02;
                                                                                                                                                                                                          Mismatches
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Best Local :
                                   08-JUL-2004
                                                                                                                                                                                      23-SEP-2004
                                                                                                                                                                                                           ADP84381;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
              19-DEC-2003; 2003WO-FI000973.
                                                       WO2004056866-A1
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The invention comprises antisense oligonucleotides that are targeted to the nucleic acids encoding a family of human proteins from mitochondrial membranes, which bind insulin sensitising, antidiabetic thiazolodinediones (referred to as: mitoNEET). The antisense oligonucleotides of the invention are useful for modulating mitoNEET expression and for treating diseases or conditions associated with mitoNEET, such as: diabetes, immunological disorders, cardiovascular disorders including hypertension, neurological disorders, and ischaemia/reperfusion injuries. The present DNA sequence represents a mitoNEET specific antisense oligonucleotide of the invention. NOTE: The present sequence is a 2 methoxyethyl (2 - MOE) gapmer with a
                        ss; AST-1; asthma; IgE mediated disease; human; GPRA; G-protein coupled receptor for asthma susceptibility; AAA1; asthma associated alternatively spliced gene 1; chronic obstructive pulmonary disease; cancer; rhinitis; de
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            present sequence is a 2'-m phosphorothicate backbone.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New antisense oligonucleotides encoding mitoNEET, useful for modulating mitoNEET expression or for treating diseases associated with mitoNEET,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          neurological disorders;
2'-methoxyethyl gapmer;
cytostatic; antiasthmatic; transgenic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 20 BP; 2 A; 0 C; 1 G; 17 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            e.g. diabetes, immunological disorders or cardiovascular disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2004-468836/44.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              06-DEC-2002; 2002US-0431529P
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                                                                                                                                                                                                                                                                                                                                                            ADP84381 standard;
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                                                                                                                                                                            donor site at the exon 19 splice junction of human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1518 TTAAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                               DNA;
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                                                                                                                                                                                                                                                                                                                                                            ВP
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Pred. No. 3
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   cancer; rhiniti
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                                 rhinitis; dermatitis;
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                                                                                                                                                                                  AAA1
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RESULT 278
AAQ75729
ID AAQ757
XX AAQ757
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XX AAQ757
XX AREVERS
XX ARE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              locus AST-1 for asthma and other IgE mediated diseases mapped to the thuman chromosome 7p14-p15. Specifically, it refers to two overlapping genes namely GPRA (G-protein coupled receptor for asthma susceptibility) and AAA1 (asthma associated alternatively spliced gene 1). The present invention describes identifying single nucleotide polymorphisms, as well as insertion or deletion polymorphisms, occurring at different positions in the AST-1 locus, and furthermore providing vectors, host cells, primers and probes in order to determine the status of an individual. Accordingly, it provides a kit to diagnose or assess predisposition to asthma, chronic obstructive pulmonary disease or cancer and other IgE mediated diseases including rhinitis and dermatitis, such that derived pharmaceutical compositions exhibit cytostatic and antiasthmatic activities. Furthermore, it provides a transgenic animal comprising the asthma locus-1 (AST-1) DNA. This oligonucleotide sequence is a 5' splice junction of the human AAA1 gene, given in Table 11 of the invention.
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Best Local (
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03-JAN-2003;
26-MAR-2003;
09-JUL-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Reverse transcription
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 04-AUG-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAQ75729
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                                   WPI; 1995-018287/03
                                                                                                                                                                                                                                                                                                                      JP06303997-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                aggregate;
                                                                                                                                                                                                                                                                                                                                                                                                                                      Analysis; gene expression; reverse transcription; primer; cDNA; aggregate; restriction enzyme; ss.
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                                                                                                                                                16-APR-1993;
                                                                                                                                                                                                         16-APR-1993;
                                                                                                                                                                                                                                                              01-NOV-1994
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 7; Page 83; 265pp; English
                                                                                           (NITE ) NIPPON TELEGRAPH & TELEPHONE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1252 TTTTGTTTTTTAATCAGATA 1271
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17; Conser
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; 2003US-0437895P.
; 2003US-0458767P.
; 2003US-0486000P.
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Salmikangas
                                                                                                                                                                                                         93JP-00112515
                                                                                                                                                93JP-00112515.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; 1 C; 0 G; 7 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      primer used in cDNA analysis technique.
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                         This invention describes a novel method for sorting single-stranded nucleic acids by isolation and hybridisation of nucleic acid pools, then reading out, where the nucleic acids are selectively bound using capture agents that are (a) immobilised on the surface of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonucleotides have a 5'-invariable anchor region, the complement of which is present at least once in each nucleic acid and a 3'-variable, discriminatory region that comprises all possible combinations of up to 10 nucleotides to allow binding of particular sorts of single stranded nucleic acids. The capture agents are particularly locked nucleic acids (LM) and the anchor region comprises a sequence of 10-50, particularly 15-25, T residues. The capture oligonucleotides are bictinylated and immobilised on a surface by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GRNESEQ files AQ75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
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Pred. No. 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  metal, resin, gel, crystalline material and/or membrane, having semiconducting properties and especially in the form of a chip. Its surface is particularly a layer of (bio)molecular filaments and binding of single stranded nucleic acids to the surface is (quasi)covalent, supramolecular, physical, stimulated by an electrical field or through a molecular sieve. The method is used (i) for analysis of patterns, especially in mucosal, hair root, blood, nerve or germ cells and (ii) for determining the activity of pharmaceuticals and/or nutritional compounds, e.g. food additives or supplements, especially minerals, trace elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and mixtures. The method provides rapid, inexpensive and reproducible representation of differences in pools of nucleic acid from cells. It allows imaging of the complete pattern of all nucleic acid in a cell, and can detect very small differences in the nucleic acid pool. Since the method is based on comparison of nucleic acid pools, not individual genes, matrix miniaturisation is possible. ADX01281-ADX01344 represent construction.
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                               A method for the analysis of cDNA comprises (a) preparing an aggregate of double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AAO75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
Sequence
                                                                                                                                                                                                                                              Analysis of cDNA and gene expression - by amplification of {\tt mRNA} followed by digestion with restriction enzymes.
                                                                                                                                                                                                                                                                                                    WPI; 1995-018287/03.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A method for the analysis of cDNA comprises (a) preparing an aggregate of double-stranded cDNAs by using an aggregate of mRNAs and a plural type of abbiled reverse transcription primers (GENESEQ files AAQ75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
Synthetic
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                                                    Starch branching enzyme promoter; rice; starch content; PCR primer;
                                                                                                                                                                     10-JUL-1995
                                                                                                                                                                                                                                                                                   AAQ73754 standard;
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                                                                                                        Rice starch branching enzyme promoter 3'-primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (NITE ) NIPPON TELEGRAPH & TELEPHONE CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local
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                                                                                                                                                                     (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    93JP-00112515
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                                                                                                                                                                                                                                                                                   DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 15.2; DB 1.
Pred. No. 3.4e+02
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3;
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RESULT 283
AAQ75630/c
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The rice starch branching enzyme gene promoter was amplified using a 5'-primer (AAQ73753) and a 3'-primer (AAQ73754) corresponding to nucleotides 4-23 and 995-1115, respectively, of the promoter sequence. The promoter can be operatively linked to the branching enzyme gene or to heterologous genes for expression in plant seeds
A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AAQ75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c)
                                                                                                                                                                                                                                              Analysis of cDNA and gene expression - by digestion with restriction enzymes.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Analysis; gene expression; reverse transcription; primer; cDNA; aggregate; restriction enzyme; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Reverse transcription primer used in cDNA analysis technique.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New gene of branching enzyme of rice starch yield of grain.
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                                                                                                                                                                                            Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                           16-APR-1993;
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                                                                                                                                                                                            Page 6; llpp; Japanese
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP; 0 A; 3 C; 12 G; 6 T; 0 U;
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Pred. No. 3.4e+02
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                                                                                                                                                                                                                                                                          amplification
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Best Local S
Matches 17
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Matches
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                                                                                                                        A method for the analysis of cDNA comprises (a) preparing an aggregate (double-stranded cDNAs by using an aggregate of mRNAs and a plural type (labelled reverse transcription primers (GENESEQ files AAQ75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
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                                                                                                 Sequence 21 BP; 1 A; 2 C; 0 G; 18 T; 0 U; 0 Other;
                                                                                                                                                                                                                                       Disclosure; Page 8; 11pp; Japanese.
                                                                                                                                                                                                                                                                 Analysis of cDNA and gene expression - by digestion with restriction enzymes.
                                                                                                                                                                                                                                                                                                                                                       16-APR-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Reverse transcription primer used in cDNA analysis technique.
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17; Conserv
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                      АТТАЛАЛАЛАЛАЛАСТАЛА 1536
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                                                             Score 15.2; DB 1;
Pred. No. 3.4e+02;
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Pred. No. 3.
                                                 Mismatches
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RESULT 285
AAQ75676/c
ID AAQ75676 standard; DNA; 21 B:
XX
AC AAQ75676;
XX
DT 04-AUG-1995 (first entry)

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RESULT 286
AAQ75627/c
ID AAQ756
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                                                        WPI; 1995-018287/03.
                                                                                                                                                           16-APR-1993;
                                                                                                                                                                                                         16-APR-1993;
                                                                                                                                                                                                                                                             01-NOV-1994
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                                                                                                                                                                                                                                                                                                                                                                                                         aggregate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Reverse transcription primer used in cDNA analysis technique.
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       Analysis of
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                                                                                                          (NITE ) NIPPON TELEGRAPH & TELEPHONE CORP.
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       cDNA and gene expression -
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ilarity 85.0%;
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       mRNA followed
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RESULT 287
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Best Local
                                                                                A method for the analysis of cDNA comprises (a) preparing an aggregate of double-stranded cDNAs by using an aggregate of mRNAs and a plural type (labelled reverse transcription primers (GENESEQ files AAQ75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
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                                                                                                                                                                                                                                           Analysis of cDNA and gene expression - by digestion with restriction enzymes.
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                Score 15.2; DB 1
Pred. No. 3.4e+02
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Pred. No. 3.
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                              DB 1;
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RESULT 288
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ID AAQ75693;
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AC AAQ75693;
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DT 04-AUG-1995 (first entry)
DT 04-AUG-1995 (first entry)
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XX
Reverse transcription primer use
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Analysis; gene expression; rever
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Analysis; restriction enzyme; s
XX
PN 1906303997-A.
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PN 1906303997-A.
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PN 16-APR-1993; 93JP-00112515.
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PN 16-APR-1993; 93JP-00112515.
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RESULT 289
AAQ75634/c
ID AAQ756
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      01-NOV-1994
                                                                                                                                                                                                                                                              Reverse transcription primer used in cDNA analysis technique.
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                                                            JP06303997-A.
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aggregate; restriction enzyme; ss.
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17; Conserv
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A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GRNESEQ files AQ75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The
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Pred. No. 3.4e+02;
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RESULT 292
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                         04-AUG-1995
                                                                                                           AAQ75695 standard;
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Analysis of cDNA and gene expression -
by digestion with restriction enzymes.
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Best Local (
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                                                                                                                                                                                                                                                                                          Analysis of cDNA and gene expression - by digestion with restriction enzymes.
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                                                                                                         Sequence
                                                                                                                                                                                                                                                                Disclosure; Page 8; 11pp; Japanese.
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                                                                                                         A; 1 C; 1 G; 18 T; 0 U;
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Pred. No. 3.4e+02;
0; Mismatches 3
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Pred. No. 3.4e+02;
20
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RESULT 296
AAQ75700/c
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XX A
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AAQ75694/c
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                                                                               JP06303997-A
                                                                                                                             Synthetic.
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                                                                                                                                                                                 Analysis; gene expression; reverse transcription; aggregate; restriction enzyme; ss.
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17; Conserv
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Pred. No. 3.4e+02;
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01-NOV-1994

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RESULT 297
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                                                                                                                                                                                                                             Disclosure; Page 8; 11pp; Japanese.
                                                                                                                                                                                                                                                                           Analysis of cDNA and gene expression - by digestion with restriction
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n with restriction enzymes
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Pred. No. 3.4e+02;
0; Mismatches 3;
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DT 04-AUG
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DE Revers
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Reverse 04-AUG-1995

transcription primer used

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entry)

AAQ75764 standard;

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ВP

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                  Analysis of cDNA and gene expression - by digestion with restriction enzymes.
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A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AQ75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                            Similarity
TGTTAATTAAAAAAAAAAAAA 1531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTCAAAAAAAAAAAAAAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TTAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gene expression; reverse
; restriction enzyme; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 3 A; 0 C; 1 G; 17 T; 0 U; 0 Other;
                                                                                                                                                      BP; 2 A; 1 C; 1 G; 17 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          93JP-00112515
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1.1%;
                                                                          1.1%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <u>.</u>.
                                                 0
                                                                          Score 15.2; DB 1;
Pred. No. 3.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 15.2; DB 1;
Pred. No. 3.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                 Mismatches
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                                                                                                  DB 1; Length
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RESULT 303
AAQ75760/c
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AAQ75714/c
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                                                                                        01-NOV-1994.
                                                                                                                                                                    JP06303997-A
                                                                                                                                                                                                                                                                                                                           aggregate;
                                                                                                                                                                                                                                                                                                                                                                 Analysis; gene expression; reverse transcription; primer; cDNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Reverse transcription primer used in cDNA analysis technique.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     04-AUG-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAQ75760
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Analysis of cDNA and gene expression - by digestion with restriction enzymes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1995-018287/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-APR-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Analysis; gene expression; reverse transcription; primer; cDNA; aggregate; restriction enzyme; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    04-AUG-1995
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    16-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAQ75760
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (NITE ) NIPPON TELEGRAPH & TELEPHONE CORP
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17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTAAAAAAAAAAAGTAAA 1536
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 standard;
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                                                                                                                                                                                                                                                                                                                                    restriction enzyme; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Page 8; 11pp; Japanese.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
    93JP-00112515
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    primer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 15.2; DB 1;
Pred. No. 3.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        n:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length
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RESULT 304
AAQ75632/c
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                      A method for the analysis of cDNA comprises (a) preparing an aggregate of double-stranded cDNAs by using an aggregate of mRNAs and a plural type (labelled reverse transcription primers (GENESSO files AAQ75547-Q7598) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in separate lanes. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AAQ75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Analysis of cDNA and gene expression - by digestion with restriction enzymes.
                                                                                                                                         Disclosure; Page 6; 11pp; Japanese.
                                                                                                                                                                     Analysis of cDNA and gene expression - by digestion with restriction enzymes.
                                                                                                                                                                                                                WPI; 1995-018287/03.
                                                                                                                                                                                                                                                                                                  16-APR-1993;
                                                                                                                                                                                                                                                                                                                              01-NOV-1994.
                                                                                                                                                                                                                                                                                                                                                                                     Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                              Analysis; gene expression; reverse transcription; primer; cDNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Reverse transcription primer used in cDNA analysis technique.
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                                                                                                                                                                                                                                                                                                                                                                                                                   restriction
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Pred. No. 3.
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                                                                                                                                                                                  by amplification of mRNA followed
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RESULT 305
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                 Reverse transcription primer used
                                                           04-AUG-1995 (first entry)
                                                                                                                                  AAQ75712
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                                                                                                                                  standard; DNA; 21
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Pred. No. 3.4e+02;
0; Mismatches 3
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Pred. No. 3.4e+02;
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A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AAQ75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
Analysis of cDNA and gene expression - by digestion with restriction enzymes.
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Pred. No. 3.4e+02;
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                                                                                                                                           Sequence
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                                                                                       Score 15.2;
Pred. No. 3
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RESULT 309
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RESULT 310
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 21 BP; 1 A; 1 C; 2 G; 17 T; 0 U; 0 Other;
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               16-APR-1993;
                                            01-NOV-1994
                                                                                                    Synthetic.
                                                                                                                                                 Analysis;
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                                                                                                                                                                                                                                                                  AAQ75754 standard;
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                                                                                                                                aggregate;
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; restriction enzyme; ss.
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                                                                                                                                                 transcription; primer; cDNA;
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RESULT 311
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Matches 17; Conserv
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                               A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AAQ75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                                                                                                                                                                                                                                      Analysis of cDNA and gene expression - by by digestion with restriction enzymes.
                                                                                                                                                                                                                                                                                              WPI; 1995-018287/03.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Analysis of cDNA and gene expression - by amplification of mRNA followed
                                                                                                                                                                                                                                                                                                                                                                 16-APR-1993;
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Pred. No. 3.4e+02
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Sequence

21

BP; 1 A; 1 C;

G; 18 T;

0 U; 0 Other;

Analysis; gene expression; reverse transcription; primer; cDNA; Reverse transcription primer used in cDNA analysis technique.

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RESULT 313
AAQ75679/c
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                                                                   AAQ75679;
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                                                                                           standard;
                                                                                                                                                    TTACAAAAAAAAAAAAAAA 2
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Pred. No. 3.4e+02;
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Pred. No. 3.4e+02
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                                    Analysis of cDNA and gene expression - by digestion with restriction enzymes.
                                                                         WPI; 1995-018287/03.
                                                                                                                     16-APR-1993;
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                                                                                               (NITE ) NIPPON TELEGRAPH & TELEPHONE CORP
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             Page 7; llpp; Japanese
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                                                                                                                                              93JP-00112515
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Pred. No. 3.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2; DB 1;
3.4e+02;
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                                                                                                                                                                                                                                                       primer; cDNA;
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Best Local S
Matches 17
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                                                                                                                 Sequence 21 BP; 2 A; 1 C; 1 G; 17 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                            Disclosure; Page 8; llpp; Japanese.
                                                                                                                                                                                                                                                                                                         Analysis of cDNA and gene expression - by digestion with restriction enzymes.
                                                                                                                                                                                                                                                                                                                                                     WPI; 1995-018287/03.
                                                                                                                                                                                                                                                                                                                                                                                                              16-APR-1993;
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                           1518 ТТАЛАЛАЛАЛАЛАСТАЛАЛ 1537
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                                                        l Similarity
17; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gene expression; reverse transcription; primer; cDNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           restriction enzyme; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             be used to analyse gene expression rapidly and easily
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                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
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Pred. No. 3
                                                                       Score 15.2;
Pred. No. 3.
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                                                         Mismatches
                                                                                                                                                                                                                                                                                                                        by amplification of mRNA followed
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                                                                        .4e+02
                                                                                      DB 1;
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RESULT 316

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AAQ75696/c
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XX AAQ756
XX Q4-AUG
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CO O1-NOV
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RESULT 317
AAQ75772/c
ID AAQ757
XX AAQ757
XX AAQ757
XX O4-AUG
XX AAA198
KW AAA198
KW AAA198
KW A99reg
XX Synthe
XX JP0630
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XX 16-APE
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  16-APR-1993;
                                           16-APR-1993;
                                                                                                 01-NOV-1994.
                                                                                                                                                                                                  Synthetic
                                                                                                                                                                                                                                                                                                                     Reverse transcription primer used in cDNA analysis technique.
                                                                                                                                                                                                                                                                                                                                                                        04-AUG-1995
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JP06303997-A
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                                                                                                                                                 JP06303997-A.
                                                                                                                                                                                                                                             aggregate;
                                                                                                                                                                                                                                                                    Analysis; gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Analysis of cDNA and gene expression -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (NITE ) NIPPON TELEGRAPH & TELEPHONE CORP
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17; Conserv
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                                                                                                                                                                                                                                                pene expression;
restriction enz)
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                                                                                                                                                                                                                                                                    reverse transcription;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ВP
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Pred. No. 3.
                                                                                                                                                                                                                                                  88.
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                                                                                                                                                                                                                                                                    primer; cDNA;
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RESULT 318
AAQ75711/c
ID AAQ757
XX AAAUG
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                                         A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AQ75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
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                                                                                                                                                                                                                                                                                                                              Analysis of cDNA and by digestion with ---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Reverse transcription primer used
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page
                                                                                                                                                                                                                                                                            Disclosure; Page 7; 11pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1995-018287/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        (NITE )
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17; Conserv
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restriction enzyme; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                           cDNA and gene expression - with restriction enzymes.
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                                                                                                                                                                                                                                                                                                                                                        amplification
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RESULT 319
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                                                                                                                                                          This sequence represents a primer for T84, a reporter oligonucleotide for CC human chorionic gonadotropin and can be used in the method of the CC invention. The method of the invention is for detecting a target nucleic acid sequence (I) in a replication reaction. The method comprises: (i) CC (L1) that can be incorporated into repplicated nucleic acid and a CC detection probe (DP) consisting of a second label (L2), target domain and CC the replication inhibiting domain that prevents the DP from participating in CC the replicated (I); (ii) immobilising the hybrid of DP and at least one CC replicated (I); (ii) immobilising the hybrid of DP and at least one CC replicated (I); (ii) immobilising the hybrid through L1 or L2; and (iii) CC replication process, including PCR in cells, e.g. for analysis of CC initical samples, foods, crops, soil, water etc. The method using a CC homogeneous detection probe system allows real-time monitoring of product formation and is not restricted by base composition of probes or primers, CC melting or annealing temperatures or PCR cycling conditions. The presence CC decrease yield, and eliminates the need for an additional hybridisation of CC unwanted sequences is reduced, electrophoresis is not required and CC products can be detected in several different formats
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
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Matches 17
Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PCR primer; amplify; Venezuelan equine encephalitis virus; VEE; nucleic acid detection; replication reaction; clinical sample anal food analysis; crop analysis; homogeneous detection probe system;
                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 7; Page 30; 69pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              presence of a unrepli
of clinical samples,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Detecting replicated target nucleic acid - by incorporating a label in presence of a unreplicable, labelled detection probe, used for analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1997-448704/41.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (DUPO ) DU PONT DE NEMOURS & CO E I.
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                                                                                                                BP; 3 A;
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                          1.1%;
                                                                                                                5 C; 8 G; 5 T; 0 U; 0 Other;
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  Score 15.2; DB 1
Pred. No. 3.4e+02
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Pred. No. 3.4e+02;
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                                                        DB 1; Length 21;
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DT 26
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AAV32912 standard;

DNA;

21 BP

AAV32912; 26-OCT-1998

(first entry)

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RESULT 320
AAV30293
ID AAV302
XX AAV302
XX SUP-1
XX Insect
KW PCR; F
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OS Bacill
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                       49C primer A was used with primer 339 reverse (see AAV30287) to amplify DNA (see AAV30294) coding for a portion of a novel toxin of Bacillus thuringiensis (B.t.) strain PS49C (NRRL B-21532). This novel toxin belongs to the novel SUP-1 family of B.t. soluble toxins that are active against lepidopteran pests. The PCR product is claimed for use as a PCR primer or hybridisation probe, and can be used to identify toxins and genes of the SUP-1 family. Disclosed and claimed are novel B.t. isolates, pesticidal toxins (see AAW60215-32), genes, nucleotide probes and primers (see AAV30288-321 and AAT99734-87), and transformed host cells that express these toxins. The invention provides 8 entirely new families of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bacillus thuringiensis isolates - used for producing pesticidal toxins and nucleotide sequences for control of lepidopterans and coleopterans
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Feitelson JS, Schnepf HE, I
Loewer D, Schwab G, Dullum
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Bacillus thuringiensis.
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                                                                                                                                                                                                                                                                                                                       Sequence 21 BP; 5 A; 9 C; 0 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 5;
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                                                                                                                                                                                                                                                                                                                                                                                 toxins, including SUP-1, from B.t. isolates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1998-272226/24.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Insecticide;
                                                                                                                             1630 ATCCTCCCTACCCTTTTGAA 1649
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                                                                                                                                                                                                                                     Similarity
                                                                                        ATCCTCCCTACACTTTCTAA 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page 29; 139pp; English.
                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      pesticide; toxin; SUP-1; biological control; lepidopteran;
88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            toxin gene 49C primer
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um CJ, Muller-Cohn J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ВP
                                                                                                                                                                                                      <u>.</u>
                                                                                                                                                                                                                                     Score 15.2;
Pred. No. 3.
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                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                     .4e+02
                                                                                                                                                                                                                                                                   DB 1;
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Stamp
                                                                                                                                                                                                                                                          Length 21;
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AAC78935/c
ID AAC789
XX AAC789
XX AAC789
XX AAC789
XX Human
XX Human
XX Human
XX Human
XX Human
XX Human
XX Homo s
XX AX WO2000
XX
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                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      primers 1 and 2 (AAV32913) were used in a PCR reaction to amplify the bovine lactoferrin cDNA. The PCR product was used as a tail which was fused through a papsin recognition site to the 3° end of the Aspergillus niger beta-galactosidase gene. The invention provides a synthetic beta-galactosidase which differs from the natural occurring enzyme in being inactive in milk but capable of being activated by a chemical or condition naturally present in the gasrointestinal tract of humans. The design of this synthetic enzyme comprises of a tail domain fused to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     beta-galactosidase through a cleavage site. The presence of the tail domain renders the enzyme inactive and it can also be used as a purification handle. The synthetic beta-galactosidase is claimed to be able to hydrolyse lactose in vivo to overcome lactase intolerance and thereby reduce associated gastrointestinal disorders. The synthetic beta-galactosidase is also claimed to be useful in cheese making whereby it is activated by chymosin when added to milk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic beta-galactosidase inactive in milk but active in vivo - can be chemically activated and used to treat lactose intolerance, also useful in cheese production.
                   WO200053756-A2
                                                Homo sapiens.
                                                                                   expressed
                                                                                                                                    Human PRO362 hybridisation probe SEQ ID NO:564.
                                                                                                                                                                      08-FEB-2001
                                                                                                                                                                                                                                     AAC78935
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 21 BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 1; Page 13; 38pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1998-388118/33.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Karatzas CN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31-DEC-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PCR; primer; amplification; pepsin; gastrointestinal tract; milk; Aspergillus niger beta-galactosidase gene; lactase intolerance; cheese making; chymosin; bovine lactoferrin cDNA; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO9829536-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bovine lactoferrin cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (NEXI-) NEXIA
                                                                                                                                                                                                                                                                                                                                                      1605 GGTCTCCGAGAACTGGATAG 1624
                                                                                                                                                                                                                                                                                                                         μ
                                                                                                    secreted protein; transmembrane protein; PRO; EST; cytostatic;
                                                                                                                                                                                                                                       standard; DNA; 21
                                                                                                                                                                                                                                                                                                                       GGTCACCGAGCACTGGATGG 20
                                                                                   веquence
                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BIOTECHNOLOGIES INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   97WO-IB001658
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                                                                                                                                                                                                                                                                                                                                                                                                   1.1%;
85.0%;
                                                                                 tag; detection; cancer; PCR primer; probe;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        5 C; 9 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      primer 1.
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                                                                                                                                                                                                                                                                                                                                                                                     0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                       Score 15.2; DB 1
Pred. No. 3.4e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Kabel JJ, Amantea GF
                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                       Length
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AACS8192/c
ID AACS81
XX
AC AACS81
XX
DT 25-JAN
XX
DT 25-JAN
XX
DE Human
XX
KW Human;
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                    AAC78458 to AAC78599 represent polynucleotide and EST (expressed sequence tag) sequences which encode secreted or transmembrane PRO polypeptides. The PRO polynucleotides and polypeptides have cytostatic activity. The polynucleotides and polypeptides can be used for detecting the presence of PRO polypeptides in samples, for linking bioactive molecules to cells and for modulating biological activities of cells, using the polypeptides for specific targeting. The polypeptide targeting can be used to kill the target cells, e.g. for the treatment of cancers. The polypeptide specific targeting of bioactive molecules to cells. AAC78600 to AAC78987 represent PCR primers and probes used in the isolation of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ferrara N,
Goddard A,
Kljavin IJ,
Stewart TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-NOV-1999;
02-DEC-1999;
02-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel PRO polypeptides and target bioactive molecules
                         Human PRO362 hybridisation probe SEQ ID NO:103.
                                                   25-JAN-2001
                                                                            AAC58192;
                                                                                                     AAC58192
                                                                                                                                                                                                                                                                   Sequence 21 BP; 3 A; 9 C; 6 G; 3 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 114; Page 341; 636pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            activities.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2000-611443/58.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ashkenazi AJ, Baker KP, Ferrara N, Filvaroff E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-JUL-1999;
29-OCT-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            14-SEP-2000.
                                                                                                                                                                                                                                                                                           PRO polynucleotide sequences
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30-DEC-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               23-JUN-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-MAR-1999;
21-APR-1999;
                                                                                                                                                                                           395 GGCCGAAGGCCCGCAGGGTC 414
                                                                                                                                                                  20
                                                                                                                                                                                                                                Similarity
                                                                                                     standard;
                                                                                                                                                                  GGCCGGAGGCCTTCAGGGTC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Godowski PJ,
Kuo SS, Nag,
Tumas D, Wi
                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2000WO-US000219
2000WO-US000277
2000WO-US000376
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                                                   (first entry)
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99WO-US028551.
99WO-US028565.
99WO-US030095.
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99US-0134287P.
99US-0141037P.
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99WO-US031274.
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99US-0123957P
                                                                                                                                                                                                                             1.1%;
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, Williams PM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      , Botstein D, ,, Gerbe, Hi, Fong S, Gao W, Gerbe, Hi, J, Grimaldi CJ, Gurney AL, Hi, Napier MA, Pan J, Paoni NF, R
                                                                                                     21
                                                                                                     ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     polynucleotides used in detection methods, to to specific cells, and to modulate cellular
                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                             Score 15.2; DB 1;
Pred. No. 3.4e+02;
                                                                                                                                                                                                                    Mismatches
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AL, Hillan KJ;
AM, S
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                                                                                                                                                                                                                                                                     0 Other;
                                                                                                                                                                                                                                          DB 1;
                                                                                                                                                                                                                                         Length 21;
                                                                                                                                                                                                                    Indels
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Gerritsen ME;
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Human; tumour; diagnosis; neoplastic disease; identification; cancer;

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RESULT 324
AAH91826
ID AAH918
XX
AC AAH918
XX
DT 09-OCT
XX
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                                                                                                                                                                                                                                                                      CC PRO237, PRO324, PRO351, PRO3612, PRO513, PRO330, PRO1449, PRO772, PRO773, PRO792 or PRO474. The Ab can be used in compositions and CC PRO772, PRO793 or PRO474. The Ab can be used in compositions and CC methods for the diagnosis and treatment of neoplastic cell growth and CC proliferation in mammals, including humans. Genes and polypeptides concoded by them, that are amplified in the genome of a tumour cell, can be identified and are useful targets for the treatment and prevention of certain cancers and may be used to monitor tumour treatment. Compounds that inhibit the expression or activity of the identified polypeptides C that inhibit the expression or activity of the identified polypeptides C inflammatory disorders and immunological disorders can be treated.

CC AACS8123 to AACS8224 represent hybridisation probes and PCR primers used in the isolation of the human PRO sequences. AACS8241 and AACS8225 to AACS8241 and C AAB24041 to AAB24056 represent human PRO polynucleotide and protein C Sequences given in the exemplification of the present invention
                                                                                                                                                                                                           Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             08-MAR-1999;
12-MAR-1999;
29-MAR-1999;
21-APR-1999;
28-APR-1999;
05-OCT-1999;
30-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   02-DEC-1999;
02-DEC-1999;
30-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Baker
Wood W
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New isolated antibody for use in compositions and methods for the diagnosis and treatment of neoplastic cell growth and proliferation mammals, including humans, and in monitoring tumor treatment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      tumourigenesis; detection; neoplastic cell growth; proliferation; cytostatic; antiinflammatory; immunomodulatory; inflammatory disorder; immunological disorder; hybridisation; probe; PCR primer; ss.
                 09-OCT-2001
                                             AAH91826
                                                                         AAH91826
                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 14; Page 116; 195pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2000-572269/53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30-DEC-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               present invention describes an isolated antibody (Ab) that binds to of the human proteins (P) designated PRO213, PRO1330, PRO1449,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WI;
                                                                                                                                                                               395
                                                                                                                                                   20
                                                                                                                                                                                                             l Similarity
17; Conserv
                                                                                                                                                                                                                                                                        21
                                                                         standard;
                                                                                                                                                                                 GGCCGAAGGCCCGCAGGGTC 414
                                                                                                                                                   GGCCGGAGGCCTTCAGGGTC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Desauvage FJ,
                                                                                                                                                                                                                                                                      BP; 3 A;
                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2000WO-US000277.
                 (first entry)
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99US-0131445P.
99WO-US023089.
99WO-US028313.
99WO-US028551.
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99WO-US031243.
99WO-US031274.
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99US-0126773P.
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                                                                          DNA;
                                                                                                                                                                                                                         1.1%;
                                                                                                                                                                                                                                                                      9 C; 6 G;
                                                                          21
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                                                                                                                                                                                                                            Pred.
                                                                                                                                                                                                                                       Score 15.2;
                                                                                                                                                                                                                                                                        3 T;
                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             P,
                                                                                                                                                                                                                         No.
                                                                                                                                                                                                                                                                        0 U;
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                                                                                                                                                                                                                            3.4e+02;
                                                                                                                                                                                                                                                                        0 Other;
                                                                                                                                                                                                                                         DB 1; Length 21;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RD,
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                                                                                                                                                                                                             Gaps
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Human; inflammatory bowel disease; Crohn's disease; ulcerative colitis; single nucleotide polymorphism; SNP; chromosome 19p13; paternity test; chromosome 5q31-33; forensic test; gene therapy; ds.
                                                                                                                                          Human
                                                                                                                                          inflammatory bowel disease associated
                                                                                                                                          polymorphic site
                                                                                                                                             #901.
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Homo sapiens

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misc_feature
                    Key
             Location/Qualifiers
/*tag= a
/note= "SNP,
optionally
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 at
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 position"
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WO200142511-A2

14-JUN-2001.

10-DEC-1999; 99US-0170257P 10-APR-2000; 2000US-0196046P 11-DEC-2000; 2000WO-US033632

(WHED) WHITEHEAD INST BIOMEDICAL RES. ELLIPSIS BIOTHERAPEUTICS CORP.

(ELLI-)

Daly M, Hudson TJ, Lander ES, Rioux Ģ Siminovitch

WPI; 2001-367874/38.

Testing for the bowel disease, for the presence of polymorphisms associated with inflammatory isease, using a hybridization assay.

Claim 1; Page 76; 463pp; English.

The present invention describes a method for detecting the presence of polymorphisms associated with inflammatory bowel diseases such as ulcerative colitis and Crohn's disease. The methods can be used to detect the presence of genetic polymorphisms associated with inflammatory bowel disease and correlating their occurrence with disease states. They may be used in this way for phenotypic correlations, forensics, paternity testing, medicine and genetic analysis. The present sequence is a polymorphic site described in the exemplification of the invention

Sequence 21 BP; 1 A; 3 C; 0 G; 16 T; 0 U; 1 Other;

Query Match Best Local ( Matches 17; Conservative 81.0%; 0, Score 15.2; Pred. No. 3 Mismatches .4e+02 DB 1; Length Indels 0, Gaps 0

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유
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     ш
TTCATCTCNTTTTTTTTTTT
21
        1318
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RESULT 325
AAD23640/C
ID AAD236
XX AAD236
AC AAD236
XX AAD236
XX Human
XX Human
XX Human
XX Human
XX Hong Q
XW cytoch
XX Cytoch
XX Homo s
XX Homo s
XX Homo s
XX WO2001
XX WO2001
XX WO2001 AAD23640;

AAD23640 standard; DNA; 21 ₽P

Human CYP2D6 exon 3/4 genotyping upstream PCR primer 07-MAR-2002 (first entry)

tong QT; cardiac repolarisation; Torsades de Pocytochrome P450; PCR primer; 88. ic polymorphism; LQT;
Pointe; TdP; CYP2D6;

#2

Homo sapiens

WO200179554-A1

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RESULT 326
ACA63932/c
ID ACA639
XX ACA639
AC ACA63
XX IOUVE
XX NOVE
XX HUMM
KW ANT
KW ANT
KW ANT
KW ANT
KW BY
KW BY
XW BY
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XW BY
YOU
XX THE CONTROL OF 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a method for determining whether a subject has CC predisposition for QT interval elongation when treated with one or more pharmaceutical agents. The method comprises screening a biological sample CC from the subject through a nucleic acid array containing probes for at C least two genetic mutations or polymorphisms chosen from long QT (LQT), CC altered sensitivity (MiRPl) or increased exposure (MDR, P450 cytochrome) CC genes. The method is useful for determining whether a subject has a CC predisposition for QT interval prolongation when treated with one or more CC pharmaceutical agents. The method is useful for screening one or more CC pharmaceutical agents in vitro for their ability to induce prolonged CC cardiac repolarisation of a cell. The method is also useful for CC identifying genetic polymorphisms and mutations which are associated with CC identifying genetic polymorphisms and mutations which are associated with CC an increased risk for prolonged QT intervals or Torsades de Pointes CC (TdP). The present sequence is a PCR primer used for genotyping human CYC cytochrome P450 isoform CYP2D6 exon 3/4 DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches 17
    17-OCT-1997;
03-NOV-1997;
13-NOV-1997;
                                                                                                                                                                                                                                                        Human; secreted and transmembrane protein; PRO; antiinflammatory; antiarteriosclerotic; cardiant; anti-infertility; anti-HIV; cytostatic; antidiabetic; gene therapy; inflammatory disease; organ failure; atherosclerosts; cardiac injury; infertility; birth defect; premature aging; AIDS; cancer; diabetic complication; chromosome mapping gene mapping; pharmaceutical; diagnostic; biosensor; bioreactor; tissue typing; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Determining predisposition for QT interval prolongation when treated with pharmaceutical agents by identifying genetic polymorphisms or mutations located in long QT, altered sensitivity or increased exposure genes.
                                                                                        24-OCT-2001;
                                                                                                                                   19-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                         Novel human secreted and transmembrane protein related probe #92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-JUN-2003
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17; Conserv
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    97US-0062250P.
97US-0064249P.
97US-0065311P.
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Pred. No. 3
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22-APR-1998
23-APR-1998
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23-APR-1999
23-INOV-1999
14-MAY-1999
14-MAY-1999
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11-FEB-2000
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31-MAR-1998
31-MAR-1998
01-APR-1998
01-APR-1998
01-APR-1998
01-APR-1998
08-APR-1998
08-APR-1998
09-APR-1998
09-APR-1998
15-APR-1998
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15-APR-1998
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21-APR-1998;
21-APR-1998;
22-APR-1998;
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20-MAR-1998;
20-MAR-1998;
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12-MAR-1998;
13-MAR-1998;
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11-MAR-1998;
11-MAR-1998;
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  2000WO-US000219
2000WO-US000376
2000WO-US0003565
2000WO-US003365
2000WO-US005004
2000WO-US005004
2000WO-US005031
2000WO-US00753
2000WO-US00753
2000WO-US014043
2000WO-US014043
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2000WO-US014044
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98US-0077641P
98US-0077649P
98US-0077649P
98US-00778910P
98US-0078910P
98US-0078910P
98US-0078910P
98US-0079656P
98US-0079663P
98US-0079728P
98US-0079728P
98US-0080107P
98US-0080107P
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98US-00801107P
98US-00801107P
98US-00811817P
98US-00811817P
98US-00811817P
98US-00811817P
98US-008181817P
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99WO-US031274.
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RESULT 327
ACA72096/c
ID ACA720
XX
AC ACA720
XY
I1-AUG
XX
DT 11-AUG
XX
Human
XX
Human;
KW Human;
KW Human;
KW Human;
KW apopto
KW inflam
KW apstro
KW glomer
KW glomer
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Best Local S
Matches 17
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Ferrara N, Filvaroff E,
Goddard A, Godowski PJ,
Kljavin IJ, Kuo SS, Napi
Stewart TA, Tumas D, Wil
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24-AUG-2000;
24-AUG-2000;
01-DEC-2000;
20-DEC-2001;
28-FEB-2001;
22-MAR-2001;
25-MAY-2001;
01-JUN-2001;
29-JUN-2001;
Human; ds; thrombolytic agent; interferon; interleukin; cytokine; erythropoietin; colony stimulating factor; cancer; colorectal carcinoma; apoptosis related condition; AIDS; amyotrophic lateral sclerosis; inflammatory disease; asthma; atherosclerosis; neurodegenerative disease; gastrointestinal disorder; Alzheimer's disease; parkinson's disease; hypertension; myocardial ischaemia; kidney disease; carcinogenesis; glomerulonephritis; lung disease; pulmonary hypertension; precclampsia; bronchial asthma; gastric ulcer; renal failure; cardiovascular disease;
                                                                                                                                                                                                                                                                                                                                        The invention describes an isolated nucleic acid (I) comprising, or which is at least 80 % sequence identity to, or the full-length coding sequence of, any of 118 300-2100 nucleotide sequences, which encodes its corresponding PRO polypeptide sequences, which encodes its sequences, all given in the specification. The nucleic acids and polypeptides are useful for treating inflammatory diseases, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, AIDS, cancer, or diabetic complications. The nucleic acids are useful as hybridisation probes, in chromosome and gene mapping, and in generating antisense RNA or DNA. The polypeptides are useful as pharmaceuticals, diagnostics, biosensors or bioreactors. Both are useful in tissue typing. This sequence represents a novel human secreted and transmembrane PRO polypeptide associated probe
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cardiac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI;
                                                                                                                            11-AUG-2003
                                                                                                                                                   ACA72096;
                                                                                                                                                                         ACA72096
                                                                                                                                                                                                                                                                                                                      Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      secreted and transmembrane nucleic acids and polypeptides, designated PRO, useful for treating inflammation, organ failure, atherosclerosis, diac injury, infertility, birth defects, premature aging, AIDS, or
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17; Conserv
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                                                                                                                                                                                                                              GGCCGAAGGCCCGCAGGGTC 414
                                                                                                                                                                         standard;
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                                                                                                     polypeptide associated oligonucleotide SEQ
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2000WO-US023710.

2000WO-US02332678.

; 2000WO-US032678.

; 2001WO-US034956.

2001WO-US009552.

; 2001WO-US017092.

; 2001WO-US017092.

; 2001WO-US017800.

; 2001WO-US02106692.

; 2001WO-US021735.
                                                                                                                                                                                                                                                                            Conservative
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                                                                                                                                                                         DNA;
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f E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt, Williams PM, Wood WI;
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Pred. No. 3.4e+02;
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    17-OCT-1997
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11-MAR-20000
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x US2002177553-Al.

x 13-NOV-1997, 97US-0062239P.

x 13-NOV-1997, 97US-0062239P.

x 13-NOV-1997, 97US-0062239P.

x 13-NOV-1997, 97US-0062234P.

x 13-NOV-1997, 97US-0062234P.

x 13-NOV-1998, 98US-0077642P.

x 11-NAR-1998, 98US-007791P.

x 11-NAR-1998, 98US-007791P.
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The invention relates to an isolated secreted and transmembrane CC polypeptide, designated as PRO polypeptide. The PRO polypeptide is useful CC in PRO polypeptide detection methods. The PRO polypeptide is useful for CC linking a bioactive molecule to a cell. The PRO polypeptide or an CC entibody against it is useful for modulating a biological activity of a CC cell. The PRO polypeptide is useful in industrial applications including CC pharmaccuticals, diagnostics, biosensors and bioreactors. The PRO CC polypeptide is also useful as a thrombolytic agent, interferon, CC concert e.g. colorectal carcinoma; apoptosis related conditions e.g. AIDS, CC cancer e.g. colorectal carcinoma; apoptosis related conditions e.g. AIDS, CC amyotrophic lateral sclerosis; inflammatory disease e.g. asthma, CC atherosclerosis; neurodegenerative disease e.g. Aliheimer's disease, CC parkinson's disease; cardiovascular disease e.g. Aliheimer's disease, CC parkinson's disease; cardiovascular disease e.g. hypertension and CC glomerulonephritis; lung disease e.g. pulmonary hypertension and CC sethma; gastrointestinal disorders e.g. gastric ulcer and inflammatory bowel disease; reproductive disorders e.g. premature labour and preeclampsis; carcinogenesis. The present sequence represents a PRO CC sequence data for this patent did not form part of the printed CC sequence data for this patent did not format directly from USPTO CC at sequata.uspto.gov/sequence.html?DocID=20020177553
                                                                                                      Query Match
Best Local S
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02-JUN-2000
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01-DEC-2000
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                                                                        Local Similarity 85.0
   395 GGCCGAAGGCCCGCAGGGTC 414
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2000US-00709734
2000US-00702374
2000WG-US032678
2000WG-US034956
2001WG-US0304956
2001US-00816920
2001US-00816920
2001US-00854208
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2001US-00854208
2001US-00854208
2001US-0085420
2001WG-US017092
2001WG-US017092
2001US-00854203
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E E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napler MA, Pan J, Paoni NF, Roy MA, Shelton DL;
Williams PM, Wood WI;
                                                                        0;
                                                                                                          Score 15.2; DB 1
Pred. No. 3.4e+02
                                                                        Mismatches
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                                                                                                                                            Length
                                                                           Indels
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RESULT 328
ABX92736/c
ID ABX9277
XX IMMUNIO

20. MAR-1998

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25. MAR-1998

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17-OCT-1997;
03-NOV-1997;
13-NOV-1997;
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17-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16-OCT-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  80
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Matches

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25-AUG-1999;
30-NOV-1999;
02-DEC-1999;
16-DEC-1999;
16-DEC-1999;
30-DEC-1999;
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21-MAR-2000;
21-MAR-2000;
22-MAR-2000;
22-MAY-2000;
30-MAY-2000;
22-MAY-2000;
22-MAY-2000;
22-MAR-2001;
22-MAR-2001;
21-MAY-2001;
The present invention relates to the isolation of novel human PRO polypeptides, and the polynucleotide sequences encoding them. The PRO polypeptides are secreted and transmembrane proteins. The PRO polypeptides are useful for detecting other PRO polypeptides, for linking ploactive molecules to cells expressing PRO polypeptides, for modulating biological activities of cells expressing PRO polypeptides, and for for identifying agonists or antagonists. The bioactive molecule maybe a toxin, radiolabel or antibody, and causes apoptosis or death of the cell. The PRO polypeptides are useful for treating immune disorders, diabetes or hypor-insullnaemia, cardiac insufficiency, nervous system disorders, kidney disorders, bone and cartilage disorders or arthritis,
                                                                                                                                                                                                                                                                                                               Ferrara
Goddard
Kljavin
Stewart
                                                                                                                                                                                                                      encoding t
                                                                                                                                                                                        Example 114; Page 191; 459pp; English.
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                                                                                                                                                                                                                     secreted and transmembrane polypeptides and polynucleotides ing them useful for treating cancer, kidney diseases, bone, lage disorders and immune deficiencies.
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Godowski PJ,
Kuo SS, Napi
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2000WO-US023328
2000WS-00709238
2000US-00723749
2000US-00747259
2000WS-US034956
2001US-00816724
2001US-00816724
2001US-00854200
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2001US-00854280
2001US-00872035
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2001US-008863428
2001US-00886342
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2000WO-US000271
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2000WO-US00504
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2000WO-US00753
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2000WO-US014941
2000WO-US014941
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99WO-US031243.
                                                                                                                                                                                                                                                                                                               KP, Botstein D, Desnoyers L, Eaton D;
E E, Fong S, Gaw, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt
Williams PM, Wood WI;
                                                                                                                                                                                                                                                                                                                                  Shelton
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RESULT 329
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ID ACA664
XX ACA664
AC ACA664
XX 24-JUN
XX 10-LAG
KW Human;
KW malign
KW renal
KW renal
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Matches 17
17-OCT-1997
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27-WAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; 88; PCR; secreted protein; transmembrane protein; PRO; probe; malignancy; cancer; ovarian cancer; colorectal cancer; sarcoma; leukaemia; lymphoma; inflammatory disease; necrosis; atherosclerosis; infertility; premature aging; psoriasis; inflammatory disease; renal disease; arthritis; immune-mediated alopecia; stroke; encephalit hepatitis; multiple sclerosis; gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   tumours, and wound healing. The polynucleotide sequences encoding PRO polypeptides are useful as hybridisation probes, in chromosome and gene mapping, in the generation of antisense RNA and DNA, in the preparation of PRO polypeptides, for generating transgenic animals or knockout animals, for the genetic analysis of individuals with genetic disorders, and in gene therapy. The present sequence represents a probe used in the examples of the present invention. Note: The sequence data for this patent was obtained in electronic format directly from the USPTO web sit at seqdata.uspto.gov/psipsDIDEntry.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACA66477
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  97US-0066364P.
98US-0077632P.
98US-0077641P.
98US-0077641P.
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Ashkenazi AJ, Baker KP,
Ferrara N, Filvaroff E,
Goddard A, Godowski PJ,
Kljavin IJ, Kuo SS, Napi
Stewart TA, Tumas D, Wil
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20-NOV-1998;
20-NOV-1998;
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2001US-00816920.
2001US-00854208.
2001US-00854280.
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2000WO-US000277.
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98US-00187368.
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99WO-US005028.
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99WO-US005190.
                               Napier MA, P
Williams PM,
                                           Botstein D. Desmoyers L. Eaton DL. Fong S. Gao W. Gerber H. Gerritsen ME; Grimaldi JC, Gurney AL, Hillan KJ; ier MA, Pan J. Paoni NF, Roy MA, Shelt
                               Wood WI;
                                                Shelton
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The invention relates to a new isolated nucleic acid molecule comprises a CC sequence with at least 80% identity to: (a) a nucleotide encoding any of 94 PRO polypeptides whose sequences are fully defined in the CC specification; or (b) any of 94 nucleotide sequences fully defined in the CC specification; or the full length coding sequence of any these 94 CC nucleotide sequences. Also included are an isolated PRO polypeptide sequence is at least 80% positives when compared to any of the PRO polypeptide sequence compared to any of the PRO polypeptide having CC at least 80% amino acid sequence identity to: (a) an amino acid sequence compared to any of the PRO polypeptide having CC encoded by the nucleotide deposited with ATCC numbers listed in the peptide; or (c) an extracellular domain of the PRO polypeptide, with or CC lacking its associated signal peptide), a vector comprising the nucleic cacid molecule, a host cell comprising the vector (and producing a PRO polypeptide), a chimaeric molecule comprising the PRO polypeptide fused to a heterologous amino acid sequence and an anti-PRO antibody. The PRO polypeptide fused to a heterologous amino acid sequence and an anti-PRO antibody. The PRO polypeptide fused comprising the PRO polypeptide fused to a heterologous amino acid sequence and an anti-PRO antibody. The PRO polypeptide fused in colorectal cancer, serial disease, arthritis, immune-mediated alopecia, inflammatory disease, mealignancies or cancers (e.g. ovarian cancer, colorectal cancer, sarcoma, leukaemia or lymphoma), inflammatory disease, arthritis, immune-mediated alopecia, troke, encephalitis, hepatitis, or multiple sclerosis in mammals. The PRO polypeptides are useful in drug screening, particularly as tragets of for therapeutic intervention in these diseases. The PRO polypeptides are for these diseases. The PRO polypeptide are for colorectal cancer, serial diseases, and in the diagnostic determination of the presence of them. The PRO genes may genes may colored to the probable of the probable of the pr
  New genes and secreted and transmembrane polypeptides (e.g. PRO337 or PRO1559), useful for treating or diagnosing e.g. cancers, atherosclerosis, infertility, stroke, encephalitis, hepatitis or multiple sclerosis in mammals.
  Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 114; Page 192; 460pp; English.
BP; 3 A; 9
C; 6 G; 3 T; 0 U; 0 Other;
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밁 á Best Local Matches 1 Query Match 395 GGCCGAAGGCCCGCAGGGTC 414 20 GGCCGGAGGCCTTCAGGGTC 1 17; Similarity Conservative 1.1%; ; Score 15.2; Di ; Pred. No. 3.4e 0; Mismatches .4e+02 DB 1; Length Indels **°**; Gaps

0

RESULT 330
ACC79578
ID ACC795
XX
AC ACC795
XY
O5-AUG
XX
Triple
XX
Gene e
KW Gene e
KW Geneer
KW modula
XX
Synthe
XX
PN W02003
XX
PF 11-OC1 ACC79578; ACC79578 standard; DNA; 21

ВP

05-AUG-2003 (first entry)

Triplex forming oligonucleotide (TFO) module 1 oligonucleotide.

Gene expression control; regulatory peptide; selectively suppress; cancer; gene therapy; gene expression; regulation; suppression; modulation; triplex forming oligonucleotide; TFO; ss.

Synthetic

WO2003033701-A1

24-APR-2003

11-OCT-2002; 2002WO-GB004633.

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RESULT 331
ADA25103/c
ID ADA251
XX ADA251
XX ADA251
XX CO-NOV
CT 20-NOV
CT 20-NOV
CT Secret
XX Human;
KW Chromo
KW Sports
KW Wounda
KW Wounda
KW Wounda
KW Cardia
KW Wounda
KW Cardia
KW Cardia
KW Cardia
KW Cardia
KW Haemog
XX
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PD 13-MAR
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                                                                                                                                                                                                                                                                                                                                                                                     유
                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention describes a method for suppressing or modulating CC the expression of a selected gene in a cell. The method comprises cintroducing into the cell a molecule comprising a nucleic acid binding portion which binds to a site at or associated with the selected gene CC which site is present in a genome, and an expression repressor portion or a modifying portion. The nucleic acid binding portion comprises an CC oligonucleotide or oligonucleotide mimic or analogue. The repressor cC portion comprises a polypeptide or peptidomimetic. The modifying portion or CC also comprises a polypeptide or peptidomimetic that is capable of CC modulating covalent modification of nucleic acid or chromatin and is not CC using a complex of an oligonucleotide and a regulatory peptide. The capable of an endonuclease. The method is useful in controlling gene expression CC using a complex of an oligonucleotide and a regulatory peptide. The CC many areas of biology, such as in methods of treatment where the CC models of disease and in modifying the expression of a gene is useful in controlling or suppression of a medicament for modificating or suppressing the expression of the selected CC gene in a patient or in an animal cell. The method is useful in gene CC therapy. The present sequence represents a triplex forming considering the nucleotide, which is used in an accordance of the resent tell oligonucleotide, which is used in an accordance of the resent tell oligonucleotide, which is used in an accordance of the resent invention.
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Best Local S
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Jenkinson
                                                                     Human; secreted and transmembrane protein; PRO; gene; ss; tissue typing; chromosome identification; vaccine; cancer; retinal disorder; sports related joint disorder; osteoarthritis; rheumatoid arthritis; wound healing; obesity; diabetes; hearing loss; cardiac insufficiency disorder; kidney disorder; nervous system disorder; haemoglobin associated disorder; expressed sequence tag; EST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Suppressing or modulating the expression of a selected gene in a cell comprises introducing into the cell a molecule comprising a nucleic acid binding portion, and an expression repressor portion or a modifying
  13-MAR-2003
                          US2003050241-A1
                                                                                                                                                          Secreted
                                                                                                                                                                                  20-NOV-2003
                                                                                                                                                                                                       ADA25103;
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                                                Homo sapiens
                                                                                                                                                                                                                               ADA25103 standard;
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17; Conser
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n JD, Kanda
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                                                                                                                                                                                                                                                                                          AAAGTAAAAGGGGAGAGAGG
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                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                             the
                                                                                                                                                         transmembrane PRO protein associated probe #91.
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anda P;
                                                                                                                                                                                                                                                                                                                                                                                                             present invention
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Pred. No. 3.4e
0; Mismatches
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31-MAR-1998;
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01-APR-1998;
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98US-0084598P.
98US-0084600P.
98US-0084637P.
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98US-0082700P.
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98US-0082797P.
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98US-0077649P
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S-0078886P.
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3-0081817P.
3-0081819P.
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3-0081952P.
3-0081955P.
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S-0080105P.
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RESULT 332
ACD30078/c
ID ACD300
XX
ACD3000
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ACD ACD300
XX
ACD300
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ACD ACD300
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ACD300
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ACD AC
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Best Local (
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Ferrara N, F.
Inddard A, Goo.
Win IJ, Kuc
Yt TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-MAY-2001; 2001WO-US017092.

01-UUN-2001; 2001WO-US017800.

20-UUN-2001; 2001WO-US019692.

29-UUN-2001; 2001WO-US021066.

09-UUL-2001; 2001WO-US021735.

30-UUL-2001; 2001US-00918585.
17-OCT-1997;
03-NOV-1997;
13-NOV-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; secreted and transmembrane protein; PRO; cell death; neur peripheral neuropathy; diabetic peripheral neuropathy; AIDS-associated neuropathy; Charcot-Marie-Tooth disease; Refusum's disease; Abetallpoproteinaemia; Tangier disease; Krabbe's disease; Metallpoproteinaemia; Tangier disease; Krabbe's disease; Metallpoproteinaemia; Tangier disease; Metallpoproteinaemi
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                                                                                                                                                                                                                                                                                                                                                                                                                                        probe;
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Filvaroff E,
Godowski PJ,
Kuo SS, Nap,
Tumas D, Wi
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97US-0062250P.
97US-0064249P.
97US-0065311P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   syndrome; chromosome mapping;
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, Williams PM,
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Fong S, Gao W, Gerber H, Gerritsen ME;
Grimaldi JC, Gurney AL, Hillan KJ;
ier MA, Pan J, Paoni NF, ROY MA, Shelt
lliams PM, Wood WI;
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Pred. No. 3.4e+02;
0; Mismatches 3;
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07-MAY-1998
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16-MAY-1998
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18-MAY-1998
19-MAY-1999
10-MAR-1999
11-MAY-1999
11-MAY

98US-0084643P 98US-0085339P 98US-0085339P 98US-0085579P 98US-0085579P 98US-0085779P 98US-0085779P 98US-0085779P 98US-0086392P 98US-0086434P 98US-0086434P 98US-0086434P 98US-0086798P 98US-0086798P 98US-0087208P 98US-0097208P 98US-0097208P 98US-0097208P 98US-0097208P 98US-0097208P 98US-0097208P 98US-0097208P 98US-00100338P 98US-0113296P 98US-0113296P 98US-0113296P 99US-0113296P 99US-013130232P 99US-01162506P 99US-0130503139 2000WO-US0033139 2000WO-US0033139 2000WO-US0033139 2000WO-US003319 2000WO-US003319 2000WO-US003319 2000WO-US003319 2000WO-US003319 2000WO-US003319 2000WO-US003319 2000WO-US00332678 2000WO-US0332678

13-MAR-1998 20-MAR-1998 20-MAR-1998 20-MAR-1998 20-MAR-1998 20-MAR-1998 20-MAR-1998 20-MAR-1998 21-MAR-1998 22-MAR-1998 23-MAR-1998 27-MAR-1998 27-MAR-1998 27-MAR-1998 31-MAR-1998 31-MAR-1998 31-MAR-1998 31-MAR-1998 31-APR-1998 01-APR-1998 01-APR-1998 01-APR-1998 11-APR-1998 11-APR-1998 11-APR-1998 12-APR-1998 12-APR-1998 12-APR-1998 22-APR-1998 22-APR-1998 22-APR-1998 23-APR-1998	21-NOV-1997; 10-MAR-1998; 11-MAR-1998; 11-MAR-1998; 11-MAR-1998; 12-MAR-1998;
98US-0078004P 98US-0078004P 98US-007893CP 98US-007993CP 98US-007993CP 98US-007992CP 98US-007996C4P 98US-007996C4P 98US-008010SP 98US-008010SP 98US-008010SP 98US-008010SP 98US-008107P 98US-008107P 98US-008107P 98US-008107P 98US-008119SP 98US-008127P 98US-008127P 98US-008127P 98US-008127P 98US-008127P 98US-008127P 98US-008127P 98US-008133P 98US-008133P 98US-008334P 98US-008334P 98US-008334P 98US-008344P 98US-008349P 98US-008349P 98US-008349P 98US-0084441P 98US-0084441P 98US-0084441P 98US-0084441P 98US-0084463P 98US-0084637P 98US-0084637P 98US-0084637P 98US-0085339P 98US-0085339P 98US-0085333P 98US-0085339P 98US-0085333P 98US-0085333P 98US-0085333P 98US-0085333P 98US-0085333P 98US-0085333P 98US-0085333P 98US-0085333P	97US-0066364P. 98US-0077450P. 98US-0077632P. 98US-0077641P. 98US-0077649. 98US-0077791P.
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98US-0086239 98US-00863299 98US-008631449 98US-008641469 98US-00864164869 98US-00872089 98US-00872089 98US-00910109 98US-00910109 98US-01003819 98US-01003819 98US-01003819 98US-01136219 98US-01136219 98US-01136219 99US-01136219 99US-01136219 99US-01312329 99US-01312329 99US-01312329 99US-01312329 99US-01312329 99US-01312329 99US-01312329 99US-01312329 99US-01312329 99US-01462229 99US-01322851	98US-0085582 98US-00856891 98US-00856971 98US-00857001 98US-00857001
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RESULT 333
ADA12764/c
ID ADA127
XX ADA127
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XX ADA127
XX Probe;
KW Probe;
KW Cardia
KW Giabet
XX Homo 8
XX US2003
PN US2003
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PN U
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Ferrara N, Filvaroff E, I
Goddard A, Godowski BJ, (
Kljavin IJ, Kuo SS, Napi
Stewart TA, Tumas D, Wil
 21-MAY-1996;
17-OCT-1997;
03-NOV-1997;
13-NOV-1997;
21-NOV-1997;
10-MAR-1998;
11-MAR-1998;
11-MAR-1998;
11-MAR-1998;
13-MAR-1998;
20-MAR-1998;
20-MAR-1998;
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Goddard
Kljavin
Stewart
                                                                                                                                                                                                                                                                                                                                                                                                                                          probe; s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention describes an isolated, secreted and transmembrane polypeptide, termed PRO polypeptide (I). (I) is useful for detecting PRO4993, PRO337, PRO1559, PRO700 or PRO739 polypeptide, and for linking a bioactive molecule to a cell expressing the above polypeptides. The bioactive molecule is a toxin, radiolabel or an antibody and causes cell death. (I) is useful as therapeutic agent, in medical and industrial applications e.g. for treating neuropathy, especially peripheral neuropathy, diabetic peripheral neuropathy, AIDS-associated neuropathy, Charcot-Marie-Tooth disease, Refusum's disease, Abetalipoproteinaemia, Tangier disease, Krabbe's disease, Metachromatic leukodystrophy, Fabry's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel secreted and transmembrane polypeptide for modulating biological activity of cell expressing the polypeptide, identifying agonists or antagonists of polypeptide, and as molecular weight markers.
                                                                                                                                                                                                                                                                           17-OCT-2001;
                                                                                                                                                                                                                                                                                                             20-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                       diabetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human secreted/transmembrane polypeptide PRO362 probe.
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1 Similarity 85.0%;
17; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                      ss; inflammatory disease; organ failure; atherosclerosis; injury; infertility; birth defect; premature aging; AIDS
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                                                                                                                                                                                                                                                                                                                                                                                                                       complication; tissue typing; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GGCCGGAGGCCTTCAGGGTC
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 96US-0018049P.
97US-0062250P.
97US-0065311P.
97US-0065311P.
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98US-0077632P.
98US-0077641P.
98US-00777641P.
98US-0077791P.
98US-0078004P.
98US-0078004P.
98US-0078004P.
98US-0078910P.
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E, Fong S, Gao W, Gerber H, Gerritsen ME;

PJ, Grimaldi JC, Gurney AL, Hillan KJ;

Napier MA, Pan J, Paoni NF, Roy MA, Shelto

Williams PM, Wood ML;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21
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Pred. No. 3.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   _
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                        aging; AIDS;
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                                                                                                                                                                                                                                                                                                                                                                                                                                          cancer;
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     30-MAR-1998
31-MAR-1998
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25-WAR-1998
26-MAR-1998
27-MAR-1998
27-WAR-1998
27-MAR-1998
27-MAR-1998
27-MAR-1998
27-MAR-1998
 98US-0084414P

98US-008463PP

98US-008463PP

98US-008463PP

98US-008463PP

98US-008463PP

98US-0084643PP

98US-0085323PP

98US-0085323PP

98US-008573PP

98US-0085573PP

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98US-008574PP

98US-0086714PP

98US-0086414PP
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98US-0081229P

98US-0081811PP

98US-00818119P

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98US-0081955P

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98US-0082790P

98US-0082797P

98US-0082797P

98US-00823132P

98US-0083312P

98US-0083312P

98US-0083496P

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98US-0083742P
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98US-0080105P

98US-0080165P

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S-0079294P.
S-0079656P.
S-0079663P.
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98US-0086486P. 98US-0087098P. 98US-0087106P. 98US-0087208P.

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RESULT 334
ACD29493/c
ID ACD29493
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22-MAR-2001;
22-MAR-2001;
10-MAY-2001;
10-MAY-2001;
21-MAY-2001;
01-JUN-2001;
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05-JUN-2001;
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 17-OCT-1997;
03-NOV-1997;
13-NOV-1997;
11-NOV-1997;
11-NAR-1998;
11-MAR-1998;
11-MAR-1998;
11-MAR-1998;
11-MAR-1998;
11-MAR-1998;
11-MAR-1998;
                                                                                                                                                                                                                                                    Human; secreted and transmembrane protein; PRO; viral infection; tumour growth; retinal disorder; injury; sight loss; retinitis pigmentosum; age-related macular degeneration; sport-related joint problem; articular cartilage defect; osteoarthritis; sport-related joint problem; articular cartilage defect; osteoarthritis; rheumatoid arthritis; wound healing; obesity diabetes; insulinaemia; kidney disorder; mesangial cell function; Begrer disease; nephropathy; celiac disease; dermatitis; Crohn disease; neuropathy; cardiac-insufficiency disorder; peripheral neuropathy; diabetic peripheral neuropathy; autonomic neuropathy; reduced motility of the gastrointestinal tract; atony of the urinary bladder; post polio syndrome; Krabbe's disease; Charcot-Marie-Tooth disease; Fabry's disease; Tangier disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ashkenazi /
Ferrara N,
                                                                                                                                                                                                                                            Refsum's disease; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                       27-AUG-2003
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                                                                                                                                               16-OCT-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      standard;
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, Filvaroff
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2001US-00816920
2001US-00854208
2001US-00854208
2001US-00854280
2001US-00872035
2001US-00872035
2001US-00874503
2001US-00806342
2001US-00886342
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                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
97US-0062250P.
97US-0064249P.
97US-0065311P.
97US-0066364P.
98US-0077632P.
98US-0077641P.
98US-0077641P.
98US-0077049P.
98US-0077044P.
98US-007804P.
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85.0%; Pred. No. 3
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W, Gerber H,
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98US-010031P
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98US-010187368
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99US-0125067213
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99US-01311227
99US-0131

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13-NOV-1997;
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11-MAR-1998;
11-MAR-1998;
12-MAR-1998;
20-MAR-1998;
20-MAR-1998;
20-MAR-1998;
20-MAR-1998;
27-MAR-1998;
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31-MAR-1998;
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20-DEC-2000
28-FEB-2001
22-MAR-2001
22-MAR-2001
22-MAR-2001
22-MAR-2001
210-MAY-2001
110-MAY-2001
25-MAY-2001
01-JUN-2001
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1 Similarity 85.0%;
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2000WG-US004529.
2001WG-US00652.
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2001US-00816744.
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98US-0077632P

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98US-0080132PP

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98US-0084637PP

98US-0084637PP

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09-JUL-2001;
30-JUL-2001;
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2001WO-US021735.
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   S-0064249P.
S-0063341P.
S-0063364P.
S-0077632P.
S-0077649P.
S-007789916P.
S-00778939P.
S-0079636P.
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S-0080105P.
S-00801334P.
S-00801079P.
S-0080334P.
S-00801079P.
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02-NOV-1998 20-NOV-1998 20-NOV-1998 20-NOV-1998 20-NOV-1998 20-DEC-1998 23-DEC-1999 10-MAR-1999 11-MAR-1999 11-MAR-2000 11-FEB-2000 11-FEB-2000 11-FEB-2000 11-FEB-2000 11-FEB-2000 11-MAR-2000 11-FEB-2000 11-MAR-2000 11-MAR-200 11-MAR

98US-00184216
98US-00187368
98US-0109304859
98US-0109304859
98US-0120218517
98US-0113296P
98US-0113296P
99US-01254465
99US-00254465
99US-00254465
99US-01256568
99US-01256568
99US-012657213
99US-012657213
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99US-0131022P
99US-0131022P
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99US-0131022P
99US-0131022P
99US-01312342P
99US-01312357
99US-01312357
99US-01312357
99US-01312357
99US-0131231

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14-MAY-1999
14-MAY-1999
16-JUN-1999
23-JUN-1999
26-JUL-1999
26-JUL-1999
27-DEC-1999
28-JUL-1999
28-JUL-1999
29-OCT-1999
30-DEC-1999
30-DEC-1999
30-DEC-1999
30-DEC-1999
31-DEC-1999
31-DEC
The present invention relates to the isolation of novel human PRO polypeptides, and the polynucleotide sequences encoding them. The PRO polypeptides are secreted and transmembrane proteins. The PRO polypeptides are useful for detecting other PRO polypeptides, for linking bioactive molecules to cells expressing PRO polypeptides, and for identifying agonists or antagonists. The bioactive molecule maybe a toxin, radiolabel or antibody, and cause cell death. The PRO polypeptides such as Charcot-Marie-Tooth disorder, Refsum's disease, and Krabbe's disease. The polynucleotide sequences encoding PRO polypeptides are useful as hybridisation probes, in chromosome and gene mapping, in the generation of antisense RNA and DNA, in the preparation of PRO polypeptides, for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ferrara
Goddard
Kljavin
Stewart
                                                                                                                                                                                                                                                                                                                                                                                                                                        New PRO polypeptides useful for treating peripheral neuropathy, neuropathies associated with systemic disease such as post-polio or AIDS-associated syndrome.
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J, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;

J, Godowski PJ, Grimadid JC, Gurney AL, Hillan KJ;

J, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelt-

A, Tumas D, Williams PM, Wood WI;
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99WS-0139557P

99US-0142680P

99US-0142680P

99US-01462289

99WC-US028313

99WC-US031274

199WC-US031274

2000WC-US000277

2000WC-US000277

2000WC-US000374

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2000WC-US0055

2000WC-US005

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09-APR-1998
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98US-0081195P 98US-0081229P 98US-0081817P 98US-0081818P 98US-0081952P 98US-0082569P 98US-0082704P 98US-0082796P 98US-0082796P 98US-0082796P 98US-0083795P 98US-0083795P 98US-0083795P 98US-0083795P 98US-0083554P 98US-0083554P 98US-0083554P 98US-0083554P 98US-008469P 98US-008469P 98US-0084637P 98US-0084637P 98US-0086637P 98US-0086637P 98US-0086637P 98US-008663P 98US-0086704P 98US-0087

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RESULT 337
ADC44212/C
ID ADC442
XX ADC442
XX ADC442
XX ADC442
XX ADC442
XX ADC442
XX Human;
XW Human;
XW Ophtha
XW Woundd
XX Homo 8
PN US2003
XX US2003
XX US2003
XX I6-OCT
XX I1-MAR
PR 11-MAR
PR 1
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Best Local
Matches 1
17-OCT 1997
13-NOV 1997
13-NOV 1997
11-NOV 1997
11-NAR 1998
11-MAR 1998
11-MAR 1998
11-MAR 1998
12-MAR 1998
20-MAR 1998
20-MAR 1998
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20-MAR 1998
27-MAR 1998
27-MAR 1998
27-MAR 1998
27-MAR 1998
31-MAR 1998
31-APR 1998
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l Similarity 85.0%;
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97US-0063364p

98US-0077643p

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98US-0078936p

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98US-0079664p

98US-0079664p

98US-0079728p

98US-0080107p

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Pred. No. 3.4e
0; Mismatches
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98US-0082794P
98US-0082804P
98US-0083332P
98US-0083499P
98US-0083554P
98US-0083554P
98US-0084431P
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Query Match 1.1%;
Best Local Similarity 85.0%;
Matches 17; Conservative
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12-APR-1999
12-APR-1999
12-APR-1999
12-APR-1999
14-MAY-1999
14-MAY-1999
14-MAY-1999
16-JUN-1999
16-JUN-1999
17-JUL-1999
18-AUG-1999
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-MAR-1999;
-APR-1999;
-APR-1999;
                                                    395
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GGCCGAAGGCCCGCAGGGTC
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99US-01232P.
99US-013022P.
99US-0131445P.
99US-0131445P.
99US-0131445P.
99US-0131445P.
99US-0131425P.
99US-0131445P.
99US-0141037P.
99US-0146272P.
99US-0146272P.
99US-0162568P.
99US-016268P.
99US-0162688P.
99US-016268P.
99US-016268P.
99US-0162688P.
99US-0162688P.
99US-016268
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Pred. No. 3.4e+02
     μ
                                                    414
                                                                                                      Mismatches
                                                                                                                                                   Length
                                                                                                      Indels
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                                                                                                      Gaps
                                                                                                      0
  RESULT 338
ADC61972/c
ID ADC61972/c
ADC61972/c
AC ADC619
XX ADC619
XX Human
XX Human
XX Human
XX Human
XX Wophtha
KW Wound
XX Wound
XX Wound
XX III-MAR
XX
20-MAR-1998
20-MAR 1998
20-MAR 1998
20-MAR-1998
25-MAR-1998
26-MAR-1998
27-MAR-1998
27-MAR-1998
27-MAR-1998
31-MAR-1998
31-APR-1998
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13-NOV-1997
21-NOV-1997;
10-MAR-1998;
11-MAR-1998;
11-MAR-1998;
11-MAR-1998;
11-MAR-1998;
12-MAR-1998;
13-MAR-1998;
17-MAR-1998;
20-MAR-1998;
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03-NOV-1997;
13-NOV-1997;
21-NOV-1997;
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98US-0077450P

98US-0077641P

98US-0077649P

98US-007789189

98US-00789169

98US-0078936P

98US-0079656P

98US-0079663P

98US-0079663P

98US-0079728P

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98US-00801334P

98US-0081952P

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RESULT 339
ADC63936/c
ID ADC63936 &
XX
AC ADC63936;
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Matches 17
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25-AUG-1999
25-AUG-1999
25-AUG-1999
25-AUG-1999
30-DEC-1999
30-DEC-1000
24-AUG-2000
24-AUG-2000
27-NAX-2000
27-NAX-2000
21-MAX-2000
22-MAR-2000
23-MAR-2000
23-MAR-2000
23-MAX-2000
24-JUN-2001
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99WS-01395579
99US-0141037P
99US-014569BP
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99US-00380113
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2000WO-US0300219
2000WO-US003565
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2000WO-US014941
2000WO-US015264
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2001WO-US017902
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standard; DNA; 21

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31-MAR-1998
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 970S-0064249P
970S-0063311P
970S-006331P
970S-006331P
970S-006331P
980S-0077641P
980S-0077641P
980S-0077641P
980S-00778910P
980S-0078930P
980S-0079234P
980S-0079656P
980S-0079664P
980S-00797664P
980S-007979664P
980S-007979689P
980S-0079798P
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980S-0080107P
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980S-0080171P
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  29-APR 1998

29-APR 1998

29-APR 1998

29-APR 1998

29-APR 1998

30-APR 1998

30-APR 1998

30-APR 1998

06-MAY 1998

07-MAY 1998

07-MAY 1998

07-MAY 1998

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15-MAY 1998

16-JUN 1998

20-NOV 1998

21-APR 1999

11-MAR 1999

11-MAR 1999

11-MAY 1999

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11-MAY 1999

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RESULT 340
ADC67036/c
ID ADC67036 s
XX
AC ADC67036;
XY
DT 18-DEC-200
XX
VI
DE Human PRO
XX
Vulnerary;
KW vulnerary;
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Best Local S
Matches 17
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25-AUG-1999
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29-OCT-1999
30-DCC-1999
30-DCC-1999
30-DEC-1999
30-DEC-1900
10-MAR-2000
11-MAY-2000
11-MAY-2000
22-MAR-2000
23-MAR-2000
24-AUG-2000
25-MAR-2000
27-NOV-2000
20-DEC-2000
20-DEC-2000
21-MAR-2001
21-MAY-2001
22-MAR-2001
23-MAR-2001
21-MAY-2001
21-MAY-2001
21-JUN-2001
vulnerary; virucide; neuroprotective; tumour cell proliferation inhibitor;
                                                                                              18-DEC-2003
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                                                          PRO
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1 Similarity 85.0%;
17; Conservative
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                                                                                                                                                                        standard; DNA;
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99US-00380137.
99US-003801342.
99US-003801342.
99US-003801342.
99WO-US028551.
99WO-US030355.
99WO-US030356.
2000WO-US000376.
2000WO-US000376.
2000WO-US003541.
2000WO-US003541.
2000WO-US003541.
2000WO-US003541.
2000WO-US003541.
2000WO-US003341.
2000WO-US003341.
2000WO-US003341.
2000WO-US003341.
2000WO-US0034341.
2000WO-US0034341.
2000WO-US0034341.
2000WO-US014042.
2000WO-US01444.
2000WO-US0
                                                                                            (first entry)
                                                          Taqman
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                                                        PCR probe.
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Pred. No. 3.4e
0; Mismatches
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                     cytostatic; gene therapy;
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1.4e+02;
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     11-MAR-1998
13-MAR-1998
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25-MAR-1998
27-MAR-1998
27-MAR-1999
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03-NOV-1997;
13-NOV-1997;
21-NOV-1997;
21-NOV-1998;
11-MAR-1998;
11-MAR-1998;
11-MAR-1998;
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 99WO-US031243.
99WO-US031274.
2000WO-US000217.
2000WO-US000277.
2000WO-US000376.
2000WO-US000345.
2000WO-US005441.
2000WO-US005841.
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99US-00267213
99US-00284291
99US-00311832
99WO-US010733
99WO-US012252
99US-00380137
99US-00380137
99US-00380138
99US-00380142
99US-00380142
99WO-US028313
99WO-US028555
99WO-US028565
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98US-0079664P

98US-0079728P

98US-0079786P

98US-0079786P

98US-0079786P

98US-00105413

98US-00168978

98US-00168978

98US-00168978

98US-00168978

98US-00187368

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98US-00187368

98US-002084465

98US-002085686

99US-002065686
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S-0079294P.
S-0079656P.
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S-0078886P.
S-0078910P.
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S-0077791P.
S-0078004P.
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S-0066364P.
S-0077450P.
S-0077632P.
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10-MAR-2000
21-MAR-2000
30-MAR-2000
22-MAY-2000
30-MAY-2000
30-MAY-2000
22-MIU-2000
24-AUG-2000
24-AUG-2000
20-DEC-2000
20-DEC
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2000WO-US023718
2000WO-US023338
2000WS-007092374
2000WS-00747259
2000WS-00747259
2001WS-00816744
2001US-00816920
2001US-00854280
2001WS-00854280
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2001WO-US021066.
2001WO-US021735.
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2000WO-US007532.
2000WO-US008439.
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2000WO-US014941.
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GENENTECH INC.

Ashkenazi AJ Ferrara N, Goddard A, Kljavin IJ, Stewart TA, i AJ, Baker KP, N, Filvaroff E, A, Godowski PJ, IJ, Kuo SS, Nap TA, Tumas D, Wi KP, Botstein D, Desnoyers L, Eaton DL; f E, Fong S, Gao W, Gerber H, Gerritsen ME; PJ, Grimaldi JC, Gurney AL, Hillan KJ; Napier MA, Pan J, Paoni NF, Roy MA, Shelt , Williams FM, Wood WI; Roy MA, Shelton 먇

WPI; 2003-596568/56.

muscle generation and secreted and transmembrane polypeptides and polynucleotides ing them, useful for treating wound healing, tissue growth and egeneration amyotrophic lateral sclerosis o õ

Example 114; SEQ ID NO 564; 472pp; English

The invention describes an isolated secereted and transmembrane PRO CC polypeptide (I). PRO polypeptide such as PRO213, PRO700, PRO320 or PRO615 CC is useful in biotechnological and medical research, as well as in various CI industrial applications. PRO polypeptide such as PRO300, PRO703, PRO703, PRO708, PRO320, PRO351, PRO352, PRO381, PRO615, PRO618, PRO772, PRO853, CC PRO708, PRO320, PRO351, PRO352, PRO381, PRO615, PRO618, PRO772, PRO853, CC PRO860 or PRO846 is useful for the treatment of wound healing, tissue growth and CC therapeutically in vivo for lessening the effects of viral infection. PRO200 is useful for the treatment of wound healing, tissue growth and CC muscle generation and regeneration. PRO337 is useful for treating campoterophic lateral sclerosis, neuropathy. AIDS-associated neuropathy or CC diabetic peripheral neuropathy. A polymucleotide (II) encoding (I) is cuseful for generating transgenic animals or knockout animals which are CC useful for generating transgenic animals or knockout animals which are cc useful in the development and screening of therapeutically useful created PRO coding sequences, and to construct hybridisation probes for CC individuals with genetic disorders, for recombinantly expressing (I) and CC for chromosome identification. (I) is useful as molecular marker for constituted electrophoresis purposes, and as therapeutic agents. (I) is also cuseful for screening compounds to identify those that manic the PRO CC (antagonists). (I) and (II) are useful for tissue typing. PRO antibodies care useful for tissue typing. PRO antibodies care useful in diagnostic assays for PRO e.g. detecting its expression in specific cells, tissues or serum, and for careful collection of PRO from recombinant cell culture or natural collections.

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RESULT 341
ADC69160/c
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20-MAR-1998;
20-MAR-1998;
20-MAR-1998;
20-MAR-1998;
25-MAR-1998;
26-MAR-1998;
27-MAR-1998;
27-MAR-1998;
27-MAR-1998;
31-MAR-1998;
31-MA
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11-MAR-
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13-NOV-1997
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13-MAR-1998;
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  97US
97US
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                                                                                     3-0080165P.
3-0080194P.
3-0080327P.
                                                                                                                               3-0079920P.
3-0079923P.
3-0080105P.
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3-0079728P.
3-0079786P.
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3-0078886P.
3-0078910P.
3-0078936P.
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-0081049P.
-0081070P.
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Query Match
Best Local Similarity
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110-MAR-1999
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14-MAY-1999
16-JUN-1999
17-JUL-1999
17-JUL-1999
18-APR-1999
18-AUG-1999
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                                        Ashkenazi
                                                                   (GETH
                                                                   GENENTECH
                                        ĄJ,
                                                                                           99US-00254465
99WO-US005028
99WO-US005190
99US-01265686
99WO-US005190
99US-01239579
99US-01302329
99US-01302329
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99US-014263879
99US-0138133
99WO-US028531
2000WO-US000376
2000WO-US000376
2000WO-US0031274
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2000WO-US0032770
2000WO-US0033267
2000US-008167203
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2001US-008163426
2001US-008863426
2001US-008863426
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2001US-008863426
                                        Baker
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1.1%;
                                        Botstein D,
Score 15.2; DB 1;
Pred. No. 3.4e+02;
                                        Desnoyers L,
            Length
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              21;
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09-APR-1998
09-APR-1998
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115-APR-1998
115-APR-1998
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215-MAY-1998
22-MAY-1998
22-MAY-1998
23-APR-1998

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PR 21-AP PR 22-AP PR	30-MAR 1998; 31-MAR 1998; 31-MAR 1998; 31-MAR 1998; 31-MAR 1998; 01-APR 1998; 01-APR 1998; 01-APR 1998; 08-APR 1998; 08-APR 1998; 08-APR 1998; 09-APR 1998; 09-APR 1998; 15-APR 1998; 15-APR 1998; 15-APR 1998; 15-APR 1998;	PR 17-OCT-1997; 97US-0062250P. PR 03-NOV-1997; 97US-0064249P. PR 13-NOV-1997; 97US-0066364P. PR 21-NOV-1999; 98US-0077632P. PR 11-MAR-1998; 98US-0077642P. PR 11-MAR-1998; 98US-0077644P. PR 11-MAR-1998; 98US-0077644P. PR 11-MAR-1998; 98US-007764P. PR 12-MAR-1998; 98US-007764P. PR 20-MAR-1998; 98US-007886P. PR 20-MAR-1998; 98US-0078896P. PR 20-MAR-1998; 98US-0078936P. PR 20-MAR-1998; 98US-0078936P. PR 20-MAR-1998; 98US-007966P. PR 27-MAR-1998; 98US-007966P.	Matches 17; Co 395 GGCCG
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vulnerary;

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30-DEC-1999
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11-FEB-2000
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2000WO-US000376
2000WO-US0003365
2000WO-US005841
2000WO-US005841
2000WO-US005841
2000WO-US0058319
2000WO-US007532
2000WO-US008439
2000WO-US008439
2000WO-US014944
2000WO-US014941
2000WO-US014964
2000WO-US015264
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99WO-US031274.
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New isolated secreted and transmembrane PRO polypeptides, useful in the preparation of a medicament for treating a condition responsive to the polypeptide, and as therapeutic agents e.g. vaccines. Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL; Ferrara N, Filvaroff E, Fong S, Gao W, Gerbbr H, Gerritsen ME; Goddard A, Godowski DJ, Grimaldi JC, Gurney AL, Hillan KJ; Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NP, Roy MA, Shelt Stewart TA, Tumas D, Williams PM, Wood WI; WPI; 2003-695924/66. Shelton DĽ;

Example 114; SEQ ID NO 564; 467pp; English.

The invention relates to an isolated PRO polypeptide (secreted or CC transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal CC peptide, Also included are nucleic acids encoding the PRO proteins CC mentioned above, a vector comprising a PRO nucleic acid), a host cell CC comprising the vector and producing PRO, a chimaeric molecule comprising CC pRO fused to a heterologous amino acid sequence, and an anti-PRO CC antibody. PRO337 plypeptide is useful for detecting PRO4993 polypeptide. CC Similarly, PRO4993 polypeptide is useful for detecting PRO4993 polypeptide. CC Similarly, PRO4993 polypeptide is useful for detecting PRO725, PRO700 or PRO735 polypeptide is useful for detecting PRO725, PRO700 or PRO739 polypeptide is useful for detecting CC PRO755 polypeptide, and PRO1559 polypeptide is useful for linking a CC polypeptide is the toa cell expressing PRO337 polypeptide. The bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive molecule composition of the coxin, radiolabel, or an antibody. The bioactive molecule coxin, radiolabel, or an antibody.

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Query Ma
Beat Loc
Matches
                                           Local
                 395
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                                    l Similarity
17; Conserv
         GGCCGAAGGCCCGCAGGGTC
GGCCGGAGGCCTTCAGGGTC 1
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llarity 85.0%;
Conservative
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                                           Score 15.2;
Pred. No. 3.
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                                            4e+02
                                                      DB 1;
                                                    Length 21;
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Gaps

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98US-0082796P. 98US-0083336P. 98US-0083322P.

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RESULT 343
ADC6825/c
ID ADC682
XX Human;
XX Human;
XX W Ophtha
XX W Ophtha
XX Homo 6
PN US2003
XX IO-APH
XX II-MAI
PR 13-NOV
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32-APR-1998
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                    98US-0079786P

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98US-0080194P

98US-0080328P

98US-0080334P

98US-0080334P

98US-0081071P

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98US-0081171P

98US-0081229P

98US-008181279P

98US-00818138P

98US-00818138P

98US-0081852P

98US-00818338P

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98US-0078910P
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98US-0078939P
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98US-0079728P.
98US-0079786P.
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98US-0079656P.
98US-0079663P.
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RESULT 344
ADC41605/c
ID ADC41605 s
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AC ADC41605;
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DT 18-DEC-200
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Best Local Similarity 85.0%;
Matches 17; Conservative
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Ferrara N, I
Goddard A, (
Kljavin IJ,
Stewart TA,
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06-JAN-2000;
11-FEB-2000;
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24-FEB-2000;
21-MAR-2000;
21-MAR-2000;
21-MAY-2000;
30-MAY-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel secreted and transmembrane polypeptides, designated PRO polypeptides, and polynucleotides encoding them useful for treating kidney diseases, bone, cartilage and retinal disorders.
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, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
J, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA,
A, Tumas D, Williams PM, Wood WI;
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2000WO-US01532

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neuropathy; antagonist;

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RESULT 345
ADC67660/c
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Best Local S
Matches 17
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Ferrara N,
Goddard A,
Kljavin IJ
Stewart TA
                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequences as given to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide in a sample suspected of containing PRO4993 polypeptide. Similarly, PRO4993 polypeptide is useful for detecting a PRO4993 polypeptide.
vulnerary; virucide; neuroprotective; cytostatic; gene therapy; tumour cell proliferation inihibitor; secereted and transmembrane protein; PRO; viral infection; wound healing; tissue growth; muscle generation; muscle regeneration;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel isolated secreted and transmembrane PRO polypeptides, useful preparation of a medicament for treating a condition responsive to polypeptide, and as therapeutic agents e.g. vaccines.
                                                                                                 Human
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, Filvaroff E,
, Godowski PJ,
, Kuo SS, Napi
A, Tumas D, Wil
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2000WO-US007532
2000WO-US007532
2000WO-US018439
2000WO-US014042
2000WO-US014941
2000WO-US012564
2000WO-US023328
2000WO-US023328
2000WO-US0332678
2000WO-US0332678
2001WO-US036520
2001WO-US017092
2001WO-US017092
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f E, Fong S, Gao W, Gerber H, Gerritse:
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA,
Williams PM, Wood WI;
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Pred. No. 3.4e+02;
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98US-00788910P

98US-0078936P

98US-0078936P

98US-0079294P

98US-0079656P

98US-0079664P

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     98US-0080334P-

98US-0081070P-

98US-0081071P-

98US-0081125P-

98US-0081817P-

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98US-0082770
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98US-0079920P.
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17-MAR 1999
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11-MAR 1999
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98US-008436P

98US-008441P

98US-008462P

98US-008463P

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99US-013313P

99US-013318P

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99US-013318

99US-0133
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Query Match
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Matches 17
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30-MAY-2000;
22-JUN-2000;
28-JUL-2000;
24-AUG-2000;
20-DEC-2000;
20-DEC-2000;
20-PEB-2001;
22-MAY-2001;
25-MAY-2001;
21-JUN-2001;
20-JUN-2001;
29-JUN-2001;
30-JUL-2001;
                                                                                                                                                                                                                                                                                                                                             Ferrara
Goddard
Kljavin
Stewart
                                                      The invention describes an isolated secereted and transmembrane PRO polypeptide (I). PRO polypeptide such as PRO213, PRO700, PRO320 or PRO615 is useful in biotechnological and medical research, as well as in various industrial applications. PRO polypeptide such as PRO300, PRO866, PRO703, PRO708, PRO320, PRO351, PRO352, PRO381, PRO615, PRO618, PRO772, PRO853, PRO860 or PRO846 is useful for therapeutic purposes. PRO363 is useful therapeutically in vivo for lessening the effects of viral infection. PRO200 is useful for the treatment of wound healing, tissue growth and muscle generation and regeneration. PRO337 is useful for treating amyotrophic lateral sclerosis, neuropathy, AIDS-associated neuropathy or
                                                                                                                                                                                                                                                    Novel isolated secreted and transmembrane PRO polypeptides, useful preparation of a medicament for treating a condition responsive to polypeptide, and as therapeutic agents e.g. vaccines.
                                                                                                                                                                                                                        Example 114; SEQ ID NO 564; 464pp; English.
                                                                                                                                                                                                                                                                                                                   WPI; 2003-743810/70.
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Filvaroff E,
Godowski PJ,
Kuo SS, Napi
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2000WO-US015264,
2000WO-US020710,
2000WO-US023328,
2000WO-US0323678,
2000WO-US034956,
2001WO-US034956,
2001WO-US017095,
2001WO-US01705,
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 Conservative
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f E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt, Williams PM, Wood WI;
              1.1%;
Score 15.2; DI
Pred. No. 3.4e
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RESULT 346
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                                                                                                                  (first entry)
                                                                                                Taqman
                                                                                                PCR probe.
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Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.

vulnerary;

17-APR-2003. US2003073624-A1 8

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GGCCGAAGGCCCGCAGGGTC 414

9 - APR - 199 0 - APR - 199 0 - APR - 199 6 - MAY - 199 6 - MAY - 199 7 - MAY - 199	5.5.4 PR 198 198 198 198 198 198 198 198 198 198	- MAR - 199 - APR - 199	-2001; -1997; -1997; -1997; -1997; -1998; -1998; -1998; -1998; -1998; -1998; -1998; -1998; -1998;
SUS -	98US-0081819P 98US-00818319P 98US-0081952P 98US-0081955P 98US-0082568P 98US-0082700P 98US-0082704P 98US-0082797P 98US-0082796P 98US-0082796P 98US-0082392P 98US-0083332P 98US-0083495P 98US-0083495P 98US-0083499P 98US-0083499P 98US-0083500P 98US-0083500P		11 US
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99WO-US028313 99WO-US028551 99WO-US028552 99WO-US030095 99WO-US031274 2000WO-US000219 2000WO-US000277 2000WO-US000376 2000WO-US003565 2000WO-US003565	99WO-US005190 99US-01239579 99US-01267739 99US-01267739 99US-01310229 99US-01310229 99US-01310229 99US-01310229 99US-01314459 99US-01342873 99WO-US010733 99WO-US012252 99US-01410379 99US-01410379 99US-01410379 99US-014626809 99US-01462829 99US-01462829 99US-00380138 99US-00380138	98US-00105413 98US-00910319 98US-0091010P 98US-0091059 98US-0094651P 98US-0100038P 98US-01169978 98US-01184216 98US-01187368 98US-01187368 98US-01187368 98US-0113621P 98US-0113621P 98US-0113621P 98US-0113621P 98US-0113621P 98US-0113621P 98US-0113621P	98US-00843338 98US-00853389 98US-008553399 98US-00855799 98US-00855979 98US-00855809 98US-00856979 98US-00856979 98US-00856979 98US-00867049 98US-00867049 98US-00867146 98US-00864309 98US-00864309 98US-00864309 98US-00864309

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RESULT 347
ADC42229:
ID ADC42229:
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21-MAR-2000
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    17-OCT-1997;
03-NOV-1997;
13-NOV-1997;
21-NOV-1997;
                                                                                                                                                                                                                                                 Human; 98; PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antirarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sportes-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        standard; DNA;
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2000WO-US006314
2000WO-US006313
2000WO-US014941
2000WO-US013705
2000WO-US013705
2000WO-US012328
2000WO-US01328
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Pred. No. 3.4e+02;
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vulnerary;
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31-MAR-1998
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98US-0077641P

98US-0077641P

98US-0077641P

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RESULT 348
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20-DEC-2000;
20-DEC-2000;
21-MAY-2001;
22-MAR-2001;
22-MAY-2001;
22-MAY-2001;
23-MAY-2001;
21-UN-2001;
25-MAY-2001;
25-MAY-2001;
21-UN-2001;
  17-OCT-1997

03-NOV-1997

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11-MAR-1998

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13-MAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis;
                                                                                                                                                                                                                                                             28-JAN-2002;
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Local 8
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                                                                                                                                                                                                                                                                                                                                                                                                                            healing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRO 362 Taqman
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17; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000WO-US014941.
2000WO-US02544.
2000WO-US023328.
2000WO-US033749.
2000WO-US032678.
2000WO-US032679.
2000WO-US032679.
2000WO-US034256.
2001WO-US006520.
2001WS-00816744.
2001WS-00816744.
2001WS-00816742.
2001WS-00854280.
2001WS-00854280.
2001WS-00854280.
2001WS-00872035.
2001WS-00872035.
2001WS-00886342.
2001WS-00886342.
2001WO-US0219652.
2001WO-US0219652.
2001WO-US0219652.
2001WO-US0219652.
2001WO-US0219652.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                           2002US-00978187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first
  97US-0062250P.
97US-0064249P.
97US-0065311P.
97US-0066364P.
98US-0077450P.
98US-0077641P.
98US-0077649P.
98US-0077804P.
98US-00778004P.
                                                                                                                                                                                                                                                                                                                                                                                                                            hearing loss; probe; in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PCR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       probe.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 15.2; DB 1;
Pred. No. 3.4e+02;
0: Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     414
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                                                                                                                                                                                                                                                                                                                                                                                                                              situ hybridisation.
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15-MAY-1998 15-MAY-1998 15-MAY-1998 15-MAY-1998 15-MAY-1998 22-MAY-1998 22-MAY-1998 22-MAY-1998 22-MAY-1998 22-MAY-1998 22-MAY-1998 23-MAY-1998 24-MAY-1998 26-JUN-1998 26-JUN-1998 26-JUN-1998 27-DEC-1998 28-MAY-1999 29-CT-1999 29-CT-1999 29-CT-1999 29-CT-1999 20-DEC-1999 20-DEC-1999 20-DEC-1999 21-MAY-1999 21-MAY-2000 21-MAR-2000 21-MAR-2000 21-MAY-2000 21-MAY-2000 21-MAY-2000 21-MAY-2000 21-MAY-2000 21-MAY-2000 21-MAY-2000 21-MAY-2000 21-MAY-2000

98US-0085580P
98US-0085680P
98US-0085680P
98US-0085697P
98US-0085700P
98US-0086313P
98US-0086713P
98US-0086413P
98US-0086413P
98US-0086413P
98US-0086413P
98US-0086413P
98US-0086413P
98US-0086413P
98US-0086413P
98US-00105413
98US-00105413
98US-00105413
98US-00105413
98US-00184116
98US-0018413P
99US-0131183P

13-MAY-1999; 98US-0085339 13-MAY-1998; 98US-0085579 15-MAY-1998; 98US-0085579 15-MAY-1998; 98US-0085580 15-MAY-1998; 98US-0085580 15-MAY-1998; 98US-0085697 15-MAY-1998; 98US-0085697 15-MAY-1998; 98US-0085704 15-MAY-1998; 98US-0085704 18-MAY-1998; 98US-0085704 18-MAY-1998; 98US-0086023	29-APR-1998; 98US-0083495 29-APR-1998; 98US-0083495 29-APR-1998; 98US-0083495 29-APR-1998; 98US-0083549 29-APR-1998; 98US-0083559 29-APR-1998; 98US-0083559 29-APR-1998; 98US-0083559 29-APR-1998; 98US-0083742 29-APR-1998; 98US-0084362 29-APR-1998; 98US-0084421 06-MAY-1998; 98US-0084421 07-MAY-1998; 98US-0084627 07-MAY-1998; 98US-0084637	-APR-1998 98US-0081 -APR-1998 98US-0082 -APR-1998 98US-0083 -APR-1998 98US-0083	20-MAR-1998; 98US-0078886 20-MAR-1998; 98US-0078936 20-MAR-1998; 98US-0079294 20-MAR-1999; 98US-0079294 26-MAR-1999; 98US-0079656 27-MAR-1999; 98US-0079663 27-MAR-1999; 98US-0079663 27-MAR-1999; 98US-007978 27-MAR-1999; 98US-0079728 27-MAR-1999; 98US-0079728 27-MAR-1998; 98US-0079728 27-MAR-1998; 98US-0079923 30-MAR-1998; 98US-0080185 31-MAR-1998; 98US-0080199 31-MAR-1998; 98US-0080199 31-MAR-1998; 98US-0080199 01-APR-1998; 98US-0080199
21 - MAR - 200 30 - MAR - 200 17 - MAY - 200 22 - MAY - 200 30 - MAY - 200 31 - MAY - 200 28 - JUL - 200 28 - JUL - 200 28 - JUL - 200 20 - NOV - 200 21 - NOV - 200 21 - NOV - 200 21 - DEC - 200	07-JUL-199 26-JUL-199 28-JUL-199 25-AUG-199 25-AUG-199 25-AUG-199 25-AUG-199 27-DEC-199 07-DEC-199 07-DEC-199 07-DEC-199 07-DEC-199 07-DEC-199 08-JAN-200 06-JAN-200	PR 22_DEC_1998 PR 22_DEC_1998 PR 23_DEC_1998 PR 23_DEC_1998 PR 05_MAR-1999 PR 10-MAR-1999 PR 10-MAR-1999 PR 12_MAR-1999 PR 12_MAR-1999 PR 21_APR-1999 PR 11_MAY-1999 PR 11_MAY-1999 PR 02_JUN-1999 PR 07_JUL-1999 PR 07_JUL-1999	22-MAY-199 22-MAY-199 22-MAY-199 28-MAY-199 28-MAY-199 28-MAY-199 26-JUN-199 26-JUN-199 26-JUN-199 26-JUN-199 26-JUN-199 27-OCT-199 07-OCT-199 07-NOV-199 07-NOV-199 07-NOV-199
2000WO-US017332 2000WO-US018439 2000WO-US013705 2000WO-US014042 2000WO-US015264 2000WO-US015264 2000WO-US020710 2000WO-US023328 2000WS-00709238 2000US-00709238 2000US-007123749 2000WS-007123749 2000WS-007123749 2000WS-007437459	99US-0142680P. 99US-014622P. 99US-01380137. 99US-00380142. 99US-00380142. 99US-00380142. 99US-0162506P. 99WO-US028513. 99WO-US028551. 99WO-US028565. 99WO-US031274. 2000WO-US031274. 2000WO-US0300977. 2000WO-US030376. 2000WO-US003174. 2000WO-US003565. 2000WO-US003565.	98US-00218517 98US-00113621P 98US-00113621P 98US-00113621P 99WO-US005028 99WO-US005028 99WO-US005190 99US-00265686 99WO-US005190 99US-00287213 99US-00287213 99US-0123957P 99US-01130232P 99US-01310232P 99US-0131022P 99US-0131022P 99US-0131022P 99US-0131022P 99US-0131022P 99US-0131022P 99US-0131022P 99US-0131022P 99US-0131022P 99US-0131022P 99US-0131022P 99US-0131022P 99US-0131022P 99US-0131022P 99US-0131023P 99US-0134287P 99US-0134287P 99US-0134287P 99US-0134287P 99US-0134287P 99US-0134287P	98US-0086414P 98US-0086486P 98US-0087106P 98US-0087208P 98US-00105413 98US-00105413 98US-0091010P 98US-0091010P 98US-00911359P 98US-0094651P 98US-00106451P 98US-010018P 98US-010189 98US-0116978 98US-01187368 98US-01187368 98US-01187368

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RESULT 349
ADE35652/c
ID ADE356
XX ADE356
XX ADE356
XX ADE356
XX ADE356
XX US350
XX Human;
XX Human;
XX Wophtha
XX Wound
XX Wound
XX US2003
PR 15-MA;
PF 18-FEE
PR 28-APF
PR 25-AUC
PR 18-FEE
PR 30-JUI
XX (GETH
XX (GETH
XX GETH
XX GETH
XX Shker
PI Ashker
PI FEITAI
PI Goddal
PI Kljav;
PI Stewaj
XX WPI;
XX WPI;
XX WPI;
XX
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Best Local :
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                                                    Ashkenazi AJ, Baker KP,
Ferrara N, Filvaroff E,
Goddard A, Godowski PJ,
Kljavin IJ, Kuo SS, Napi
Stewart TA, Tumas D, Wil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22-MAR-2001
22-MAR-2001
22-MAR-2001
10-MAY-2001
110-MAY-2001
25-MAY-2001
01-JUN-2001
01-JUN-2001
01-JUN-2001
14-JUN-2001
14-JUN-2001
20-JUN-2001
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20-JUN-2001
                                                                                                                                                                                                     15-MAY-1998;
08-MAR-1999;
28-APR-1999;
                                                                                                                                                                                                                                                                                                                                                               Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sportes-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                              WPI; 2003-875641/81.
                                                                                                                                                                          25-AUG-1999;
18-FEB-2000;
                                                                                                                                                                                                                                                         18-OCT-2001; 2001US-00145088
                                                                                                                                                                                                                                                                                     30-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                              Human PRO 362 Tagman PCR probe.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADE35652;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADE35652
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28-FEB-2001;
                                                                                                                                                                                                                                                                                                              US2003203434-A1.
                                                                                                                                                                                                                                                                                                                                         Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ashkenazi AJ,
                                                                                                                                      (GETH )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         395
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  l Similarity 85.0
17; Conservative
                                                                                                                                      GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGCCGAAGGCCCGCAGGGTC 414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGCCGGAGGCCTTCAGGGTC 1
                                                                                                                                                              98US-0085689P.
99WO-US005028.
99US-0131445P.
99US-00380138.
2000WO-US004341.
2000US-00918585.
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2001US-00816920.
2001US-00854208.
2001US-00854280.
2001US-00854280.
2001US-00872035.
2001US-00872035.
2001US-00872035.
2001US-00872035.
2001US-00872035.
2001US-00872035.
2001US-00872036.
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2001WO-US006520.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.1%;
                                                       Napier MA,
Williams
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21
                                                                  Botstein D. Desnoyers L. Eaton DL. Fong S. Gao W. Gerber H. Gerritsen ME; Grimaldi JC. Gurney AL. Hillan KJ; ier MA, Pan J. Paoni NF, Roy MA, Shelt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Botstein D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 15.2;
Pred. No. 3.
                                                        PM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                        Wood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Desnoyers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                      cytostatic;
                                                                      Shelton
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                      DL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
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Ctransmembrane protein) having at least 80% amino acid sequence identity croan amino acid sequence chosen from 94 fully defined sequences as given cin the specification (including PRO lacking its associated signal cpeptide, a PRO extracellular domain with or without its associated signal comprising the vector and producing PRO, a chimaeric molecule comprising the vector and producing PRO, a chimaeric molecule comprising Ct PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide, and PRO155, PRO700 or PRO739 polypeptide is useful for detecting a PRO4993 polypeptide, and PRO155, PRO700 or PRO739 polypeptide is useful for detecting PRO337 completely profits, PRO700 or PRO739 polypeptide is useful for detecting PRO337 polypeptide, and PRO1559 polypeptide is useful for detecting PRO337 polypeptide is the toxin, radiolabel, or an antibody. The bioactive molecule to a cell expressing PRO337 polypeptide; PRO700 or PRO739 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO337 polypeptide; PRO705, PRO700 or PRO739 polypeptide; PRO337 polypeptide; PRO705, PRO700 or PRO739 polypeptide; PRO337 polypeptide; PRO705, PRO700 or PRO739 polypeptide; PRO337 polypeptide; PRO725, PRO700 or PRO739 polypeptide; PRO4993 polypeptide; PRO725, PRO700 or PRO739 polypeptide or anti-PRO337 polypeptide; PRO725, PRO700 or PRO739 polypeptide; PRO725, PRO700 or PRO739 polypeptide; PRO735, PRO700 or PRO739 polypeptide; PRO725, 
useful for treating e.g. lung or breast tumors, osteoarthritis, rheumatoid arthritis, obesity, diabetes, hyperinsulinemia, hypoinsulinemia or wounds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 114; SEQ ID NO 564; 462pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 an isolated PRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (secreted or
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Sequence 21 BP; 3 **₽** 9 C; 6 G; 3 T; 0 U; 0 Other;

S Query Match Best Local & Matches 395 Similarity GGCCGAAGGCCCGCAGGGTC Conservative 1.1%; 0, Score 15.2; DB 1; Pred. No. 3.4e+02; 414 Mismatches DB 1; Length Indels <u>,,</u> Gaps 0

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ADE16766;
              ADE16766 standard;
              DNA;
              21
              ВÞ
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29-JAN-2004

(first entry)

PRO 362 Taqman

PCR

probe.

밁

20

GGCCGGAGGCCTTCAGGGTC 1

RESULT 350
ADE16766/c
ID ADE1677
XX
ADE1677
XX
AC ADE1677
XX
AC Human
XX
Human;
KW Human;
KW ophtha
KW ophtha
KW audito
KW articu
XX
XX Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation. cytostatic;

genes,

and its encoded secreted and transmembrane polypeptides

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Critansmembrane protein) having at least 80% amino acid sequence identity con an amino acid sequence chosen from 94 fully defined sequence identity con the specification (including PRO lacking its associated signal cuperide). Also included are nucleic acids encoding the PRO proteins comprising the vector and producing PRO. a chimaeric molecule comprising comprising the vector and producing PRO. a chimaeric molecule comprising CR antibody. PRO337 polypeptide is useful for detecting a PRO. Statistically, PRO493 polypeptide is useful for detecting a PRO993 polypeptide. PRO719, PRO700 or PRO739 polypeptide is useful for detecting PRO337 complexity. PRO700 or PRO739 polypeptide is useful for detecting PRO337 complexity PRO700 or PRO739 polypeptide is useful for detecting PRO337 complexity. PRO700 or PRO739 polypeptide is useful for detecting PRO337 complexity PRO700 or PRO739 polypeptide is useful for detecting PRO337 complexity PRO700 or PRO739 polypeptide is useful for Inking a bloactive molecule to a cell expressing PRO337 polypeptide. The bloactive molecule to a cell expressing PRO337 polypeptide is useful for Inking a complexity professing PRO337 polypeptide. The bloactive molecule to a cell expressing PRO339 polypeptide is useful for Inking a bloactive molecule to a cell expressing PRO339 polypeptide is useful for Inking a bloactive molecule to a cell expressing PRO337 polypeptide; PRO725, PRO700 or PRO739 polypeptide are useful for Inking a bloactive molecule con a real expressing PRO337 polypeptide is useful for PRO337 complexide and PRO559 polypeptide. PRO725, PRO700 or PRO739 polypeptide are useful for Inking a bloactive molecule con a real expressing PRO337 complexide and professing PRO337 polypeptide. PRO337 complexide is useful for modulating the professing PRO337 polypeptide is useful for modulating the professing PRO337 polypeptide or anti-PRO337 complexide is useful for modulating the professing PRO339 polypeptide professing PRO339 polypeptide is useful for modulating the professing PRO359 polypeptid
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08-MAR-1999;
23-JUN-1999;
25-AUG-1999;
18-FEB-2000;
30-JUL-2001;
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Goddard
Kljavin
Stewart
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New genes, and its encoded secreted and transmembrane polypeptides, useful for treating e.g. lung or breast tumors, osteoarthritis, rheumatoid arthritis, obesity, diabetes, hyperinsulinemia,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-875642/81.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  i AJ, Baker KP,
N, Filvaroff E,
A, Godowski PJ,
IJ, Kuo SS, Napi
TA, Tumas D, Wil
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2000WO-US004341.
2001US-00918585.
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99US-0141037P.
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E E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt
, Williams PM, Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Shelton
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Ashkenazi AJ, Baker KP, Ferrara N, Filvaroff E, Goddard A, Godowski PJ, Kljavin IJ, Kuo SS, Napi Stewart TA, Tumas D, Wil

J, Baker KP, Botstein D, Desnoyers L, Eaton DL; Filvaroff E, Fong S, Gao W, Gerber H, Gerritse Godowski pJ, Grimaldi JC, Gurney AL, Hillan KJ; Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Tumas D, Williams PM, Wood WI;

Eaton DL; Gerritsen ME;

New PRO genes and encoded secreted and transmembrane polypeptides, useful for treating e.g. lung or breast tumors, osteoarthritis, rheumatoid arthritis, obesity, diabetes, hyperinsulinemia, hypoinsulinemia or

Example 114; SEQ

ID NO 564; 453pp; English

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Query Match
 y Match 1.1%;
Local Similarity 85.0%;
nes 17; Conservative
Score 15.2; DB 1
Pred. No. 3.4e+02
0; Mismatches
                         DB 1;
                       Length 21;
  Indels
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3 T; 0

U; 0 Other;

The invention relates to an isolated PRO polypeptide (secreted or CC transmembrane protein) having at least 80% amino acid sequence identity CC to an amino acid sequence chosen from 94 fully defined sequences as given CC in the specification (including PRO lacking its associated signal CC peptide, a PRO extracellular domain with or without its associated signal CC peptide). Also included are nucleic acids encoding the PRO proteins CC mentioned above, a vector comprising a PRO nucleic acid), a host cell CC comprising the vector and producing PRO, a chimseric molecule comprising CC pRO fused to a heterologous amino acid sequence, and an anti-PRO CC antibody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO337 CC Similarly, PRO4993 polypeptide, and PRO1559 polypeptide is useful for detecting PRO3559 polypeptide, and PRO1559 polypeptide is useful for detecting PRO355, PRO700 or PRO739 polypeptide is useful for detecting PRO355, PRO700 or PRO739 polypeptide is useful for linking a CC molecule to a cell expressing PRO337 polypeptide. The bioactive molecule is the toxin, radiolabel, or an antibody. The bioactive molecule

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RESULT 351
ADD73381/c
ID ADD73381/c
ADD733
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05-JAN-1999;
08-MAR-1999;
12-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18-FEB-2000;
30-JUL-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADD73381
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        88;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGCCGAAGGCCCGCAGGGTC 414
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCR; secreted protein; transmembrane protein; PRO;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99US-00380138.
2000WO-US004341.
2001US-00918585.
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98US-0113296P.
99WO-US000106.
99WO-US005028.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 vulnerary;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CC causes death of the cell. PRO337 polypeptide is useful for linking a CC bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725, CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is CC useful for linking a bioactive molecule to a cell expressing PRO725, CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337 CC polypeptide is useful for modulating at least one biological activity of the cell expressing PRO337 polypeptide, where the cell is killed. PRO337 CC polypeptide or anti-PRO4993 polypeptide is useful for modulating the CC polypeptide or anti-PRO4993 polypeptide is useful for modulating the biological activity of the cell expressing PRO725, CC polypeptide; and PRO1559 polypeptide or an anti-PRO1559 polypeptide is useful for modulating the biological activity of the cell expressing PRO700 or anti-PRO739 polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-PRO739 polypeptide is useful for modulating the biological activity of the cell expressing PRO700 or anti-PRO739 polypeptide are useful for modulating the biological activity of the cell expressing PRO700 or anti-PRO739 polypeptide are useful for modulating the biological activity of the cell expressing PRO700 or anti-PRO739 polypeptide are useful for modulating the biological activity of the cell expressing PRO700 or anti-PRO739 polypeptide are useful for modulating the biological activity of the cell expressing PRO700 or PRO739 polypeptide is useful for modulating the biological activity of the cell expressing PRO700 or anti-PRO739 polypeptide. The collypeptide are useful for modulating the biological activity of the cell expressing PRO725, anti-PRO700 or anti-PRO739 polypeptide.
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Best Local S
Matches 17
30-MAR-1998
07-OCT 1998
20-NOV-1998
05-JAN-1999
05-JAN-1999
10-MAR-1999
11-MAR-1999
11-MAY-1999
02-DEC-1999
02-DEC-1999
02-DEC-1999
02-DEC-1999
03-DEC-1999
30-DEC-1999
30-DEC-1999
30-DEC-1999
30-DEC-1999
30-DEC-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human, 88; PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                 19-OCT-2001;
                                                                                                                                                                                                                                                                                                                                                    16-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                      US2003194781-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRO 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                        healing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GGCCGAAGGCCCGCAGGGTC 414
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                                                                                                                                                                                                                                                                                                                   2001US-00164929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tagman PCR probe.
                99US-00380138.
99WO-US028313.
99WO-US028551.
99WO-US028565.
99WO-US030095.
99WO-US031243.
99WO-US031274.
                                                                                                                                        99WO-US005190.
99WO-US008313.
99WO-US010733.
99WO-US012252.
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99WO-US000106.
99WO-US005028.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        hearing loss; probe;
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98WO-US021141.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cytostatic;
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06-JAN-2000;
06-JAN-2000;
11-FEB-2000;
18-FEB-2000;
24-FEB-2000;
02-MAR-2000;
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21 - WAR - 2000;

30 - MAR - 2000;

17 - MAY - 2000;

21 - WAY - 2000;

30 - MAY - 2000;

30 - MAY - 2000;

24 - JUN - 2000;

24 - JUN - 2001;

25 - WAR - 2001;

25 - MAR - 2001;

21 - JUN - 2001;

21 - JUN - 2001;
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2001WO-US017092.
2001WO-US017800.
2001WO-US019692.
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2000WO-US013705.
2000WO-US014042.
2000WO-US014941.
2000WO-US0205710.
2000WO-US0205710.
2000WO-US023328.
2000WO-US02332878.
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2000WO-US005841.
2000WO-US006319.
2000WO-US007532.
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2001WO-US006520
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2000WO-US003565.
2000WO-US004341.
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                                                                                                                                                                                                                                                                         INC.
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Ashkenazi A.
Ferrara N, F.
'oddard A, Goo.
avin IJ, Kuc
'tt TA, " AJ, Baker KP, Botsucan.
Filvaroff E, Fong S, Gao
, Godowski PJ, Grimaldi JC,
, Godowski PJ, Grimaldi JC,
Kuo SS, Napier MA, Pan
, williams PM, Botstein D, Desnoyers L, Fong S, Gao W, Gerber H, Grimaldi JC, Gurney AL, I ier MA, Pan J, Paoni NF, lliams PM, Wood WI; Hillan Gerritsen ME; Roy MA, Ξ Shelton

WPI; 2003-852598/79.

New secreted and transmembrane PRO nucleic acids and polypeptides, useful for stimulating the release of tumor necrosis factor alpha from human blood and stimulating the proliferation of differentiation of chondrocyte

Example 114; SEQ ID NO 564; 462pp; English.

The invention relates to an isolated PRO polypeptide (secreted or CC transmembrane protein) having at least 80% amino acid sequence identity CC to an amino acid sequence chosen from 94 fully defined sequences as given CC in the specification (including PRO lacking its associated signal CC peptide). Also included are nucleic acids encoding the pRO proteins CC mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising CC PRO fused to a heterologous amino acid sequence, and an anti-PRO CC antibody. PRO337 polypeptide is useful for detecting a PRO932 polypeptide. PRO7125, PRO7100 or PRO739 polypeptide is useful for detecting PRO337 CC polypeptide, PRO725, PRO7100 or PRO739 polypeptide is useful for detecting PRO337 CC polypeptide, PRO735, PRO700 or PRO739 PRO4993 polypeptide is useful for linking a CC pRO725, PRO700 or PRO739, PRO4993 polypeptide is useful for linking a CC professed death of the cell. PRO337 polypeptide is useful for linking a CC professed death of the cell. PRO337 polypeptide is useful for linking a CC professed death of the cell. PRO337 polypeptide is useful for linking a CC professed death of the cell expressing PRO339 polypeptide is useful for linking a CC professed death of the cell expressing PRO339 polypeptide is useful for linking a CC professed death of the cell expressing PRO337 polypeptide is useful for linking a CC professed death of the cell expressing PRO337 polypeptide is useful for linking a bloactive molecule to a cell expressing PRO337 polypeptide is useful for linking a bloactive molecule to a cell expressing PRO337 polypeptide is useful for linking a bloactive molecule to a cell expressing PRO337 polypeptide is useful for modulating the professed prof

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Best Local
Matches 1
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Goddard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-AUG-1999;
18-FEB-2000;
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ADE17390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    the cell expressing PRO725, PRO700 or PRO739 polypeptide. The polypeptides are useful for inhibiting tumour growth, retinal disorde sports-related joint problems, articular cartilage defects, osteoarthitis or rheumatoid arthritis, wound healing and hearing losmammals. The present sequence is a Tagman PCR probe used investigate gene amplification in certain tumour cell lines.
                                                                                                                                                                                  New genes, and its encoded secreted and transmembrane polypeptides, useful for treating e.g. lung or breast tumors, osteoarthritis, rheumatoid arthritis, obesity, diabetes, hyperinsulinemia,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; ss; PCR; secreted protein; transmembrane protein; PRO; cyto ophthalmological; antiarthritic; osteopathic; antirheumatic; vulne auditory; tumour growth; retinal disorder; sportes-related joint prarticular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
       in o
                                                                     The invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08-MAR-1999;
12-APR-1999;
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05-JAN-1999,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               06-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-OCT-2001;
                                                  transmembrane
                                                                                                                                                                  hypoinsulinemia
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (GETH )
  e invention relates to an isolated ansmembrane protein) having at les an amino acid sequence chosen from the specification (including PRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Match
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                                                                                                                                                                                                                                                                                                                          JU. N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENENTECH INC.
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N, Pilvaroff E,
A, Godowaki PJ,
IJ, Kuo SS, Nap
TA, Tumas D, Wi
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                362 Taqman PCR probe.
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98US-0113296P.
99WO-US000106.
99WO-US005028.
99US-00284291.
99US-00380138.
2000WO-US004341.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1.1%;
larity 85.0%;
Conservative
                                                                                                                    SEQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                entry)
                                                                                                                                                                                                                                                                                                                          KP, Botstein D, Desnoyers L, Eaton DL;
E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt
Williams PM, Wood WI;
                                                                                                                    564;
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an isolated PRO polypeptide (secreted ving at least 80% amino acid sequence chosen from 94 fully defined sequence losen from 94 fully defined sequence
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                                                                                                                  459pp;
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Pred. No. 3
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                                                                                                                    English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1;
.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length
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    sequences as
ated signal
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   disorders,
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                                                    identity
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RESULT 354
ADF479404/c
ID ADF477404 standard; DNA; 21
XX
AC ADF47404;
XX
T12-FEB-2004 (first entry)
DT '12-FEB-2004 (first entry)
XX
Human PRO 362 Tagman PCR I
XX
W Human; ss; PCR; secreted I
XW ophthalmological; antiart)
XW auditory; tumour growth; I
XW articular cartilage defect
XW wound healing; hearing los
XX
Homo sapiens.
XX
US2003195333-A1.
XX
PN US2003195333-A1.
XX
PD 16-OCT-2003.
XX
T1-OCT-2003.
XX
T1-OCT-1997; 97US-00622:
PR 03-NOV-1997; 97US-006632
PR 13-NOV-1997; 97US-006633
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cc peptide, a PRO extracellular domain with or without its associated signal comprising. Also included are nucleic acids encoding the PRO proteins and mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising CC PRO fused to a heterologous amino acid sequence, and an anti-PRO CC similarly, PRO493 polypeptide is useful for detecting a PRO493 polypeptide is useful for detecting a PRO493 polypeptide is useful for detecting a PRO493 polypeptide, and PRO725, PRO700 or PRO739, PRO4993 polypeptide is useful for detecting a CC PRO725, PRO700 or PRO739, PRO4993 polypeptide is useful for detecting a CC polypeptide, and PRO1559 polypeptide is useful for detecting a CC pro725, PRO700 or PRO739, PRO4993 polypeptide is useful for linking a CC pro700 or PRO739 polypeptide is useful for linking a CC pro700 or PRO739 polypeptide are useful for linking a bloactive molecule to a cell expressing PRO4933 polypeptide; and PRO1559 polypeptide is useful for linking a bloactive molecule to a cell expressing PRO725, CC pro700 or PRO739 polypeptide, PRO4933 polypeptide; PRO725, CC pro700 or PRO739 polypeptide, PRO4933 polypeptide or anti-PRO337 polypeptide or 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                 Human; ss; PCR; secreted protein; transmembrane protein; PRO; cyto ophthalmological; antiarthritic; osteopathic; antirheumatic; vulne auditory; tumour growth; retinal disorder; sports-related joint prarticular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              395
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGCCGAAGGCCCGCAGGGTC 414
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                                                                                                                      2001US-00978194.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                          Tagman PCR probe.
       97US-0064249P.
97US-0065311P.
97US-0066364P.
                                                                           97US-0062250P.
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Pred. No. 3.4e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3 T;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
U,
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                                                                                                                                                                                                                                                                                                                                                                             vulnerary;
                                                                                                                                                                                                                                                                                                                                                                                                  cytostatic;
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11-MAR-1998 11-MAR-1998 11-MAR-1998 13-MAR-1998 12-MAR-1998 20-MAR-1998 20-MAR-1998 20-MAR-1998 20-MAR-1998 20-MAR-1998 21-MAR-1998 21-MAR-1998 27-MAR-1998 27-MAR-1998 31-MAR-1998	-199
98US-0077641P 98US-0077641P 98US-00777641P 98US-00777649P 98US-0077991P 98US-0078936P 98US-0079936P 98US-0079656P 98US-0079929P 98US-0079929P 98US-0079929P 98US-0080107P 98US-0080107P 98US-0080107P 98US-0080107P 98US-0080107P 98US-0080107P 98US-008107P 98US-008107P 98US-008107P 98US-008123P 98US-008123P 98US-008123P 98US-008123P 98US-008133P 98US-008133P 98US-0083558P 98US-0083554P 98US-0083554P 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008533PP 98US-008533PP 98US-008533PP 98US-008533PP	077450
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15-MAY 1998; 15-MAY 1998; 15-MAY 1998; 15-MAY 1998; 12-MAY 1998; 22-MAY 1998; 22-MAY 1998; 22-MAY 1998; 22-MAY 1998; 23-MAY 1998; 26-JUN 1998; 26-JUN 1998; 26-JUN 1998; 26-JUN 1998; 26-JUN 1998; 27-OCT 1998; 20-NOV 1999; 20-NAR 1999; 11-MAR 1999; 11-MAR 1999; 11-MAR 1999; 11-MAY 1999;	-MAY-199
98US-0085699P 98US-008597P 98US-008597P 98US-0086392P 98US-0086392P 98US-0086414P 98US-0086430P 98US-0086414P 98US-0086414P 98US-0086414P 98US-0086414P 98US-008641106P 98US-0086411 98US-00166411 98US-00166411 98US-00166411 98US-00166411 98US-00166411 98US-00166411 98US-00166411 98US-00166411 98US-00166411 98US-00166411 98US-00166411 98US-00166411 98US-00166411 98US-00166411 98US-00166411 98US-00166411 98US-00166411 98US-00166411 98US-00166411 98US-00166411 98US-00166411 99US-0136668 99US-01366773P 99US-01366773P 99US-01366773P 99US-01366773P 99US-01366773P 99US-01366773P 99US-01366773P 99US-01366773P 99US-01366773P 99US-01366773P 99US-01366773P 99US-01366773P 99US-01366773P 99US-01366773P 99US-01366773P 99US-01366773P 99US-01366773P 99US-01366773P 99US-01366773P 99US-01366773P 99US-01366773P 99US-01366773P 99US-0136688 99US-0136688 99US-0136688 99US-0136688 99US-0136688 99US-0136688 99US-0136688 99US-0136688 99US-0136688 99US-0136688 99US-0136688 99US-0136688 99US-0136688 99US-0136688 99US-0136688 99US-013688 99US-013688 99US-013688 99US-013688 99US-013688 99US-013688 99US-013688 99US-013688 99US-013688 99US-013688 99US-013688 99US-013688 99US-013688 99US-013688 99US-013688 99US-013688 99US-013688 99US-013688 99US-013688 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683 99US-013683	808-0085

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RESULT 355
ADG53161;
XX Human;
XX Ophthalmo:
XX ophthalmo:
XX articular
XX auditory;
XX auditory;
XX auditory;
XX Homo Bapia
XX Homo Bap
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Best Local S
Matches 17
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02-JUN-2000
28-JUL-2000
24-AUG-2000
09-NOV-2000
01-DEC-2000
20-DEC-2000
20-DEC-2000
20-DEC-2000
20-DEC-2000
21-WAR-2001
22-WAR-2001
22-WAR-2001
10-WAY-2001
10-WAY-2001
11-JUN-2001
  17-OCT-1997;
03-NOV-1997;
13-NOV-1997;
21-NOV-1997;
10-WAR-1998;
11-WAR-1998;
11-WAR-1998;
11-WAR-1998;
12-WAR-1998;
20-WAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                             Human; 88; PCR; secreted protein; transmembrane protein; PRO; cyto ophthalmological; antiarthritic; osteopathic; antirheumatic; vulne auditory; tumour growth; retinal disorder; sporter-related joint prarticular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11-MAR-2004 (first entry)
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                                                                                                                                                                                                                                                                                  20-NOV-2003.
                                                                                                                                                                                                                                           25-OCT-2001;
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1 Similarity 85.0%;
17; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2000WO-US014941.
2000WO-US020710.
2000WO-US020710.
2000WO-US023328.
2000WO-US032678.
2000WO-US032678.
2000WO-US034956.
2001WO-US006520.
2001WS-00816744.
2001US-00816744.
2001US-00816920.
2001US-00854280.
2001US-00854280.
2001US-00854280.
2001US-00872035.
2001US-00872035.
2001US-00872036.
                                                                                                                                                                                                                                           2001US-00013927.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Taqman PCR probe.
97US-0062250P
97US-006231P
97US-006531P
97US-006364P
98US-0077632P
98US-0077641P
98US-0077649P
98US-0077049P
98US-0077049P
98US-007709P
98US-007808P
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Pred. No. 3.4e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               vulnerary;
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                                                                                                                                                                                                                                                                                                                                                                                                                                         problem;
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      20-MAR-1998

20-MAR-1998

20-MAR-1998

20-MAR-1998

20-MAR-1998

21-MAR-1998

27-MAR-1998

27-MAR-1998

27-MAR-1998

30-MAR-1998

31-MAR-1998

31-MAR-1998

31-MAR-1998

31-MAR-1998

31-MAR-1998

31-MAR-1998

31-MAR-1998

31-APR-1998

31-AP
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98US-007893PP

98US-0079294P

98US-0079663PP

98US-0079663PP

98US-0079728PP

98US-0079728PP

98US-0080105PP

98US-0080105PP

98US-0080132PP

98US-0080132PP

98US-0080132PP

98US-0080132PP

98US-00810171PP

98US-0081195PP

98US-0081195PP

98US-0081195PP

98US-00818119PP

98US-0081819PP

98US-00818181PP

98US-00818181PP

98US-00818181PP

98US-0081
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Ashkenazi AJ, Baker KP,
Ferrara N, Filvaroff E,
Goddard A, Godowski PJ,
Kljavin IJ, Kuo SS, Napi
Stewart TA, Tumas D, Wil
                                                                                                                                                                                22-MAY-1998
28-MAY-1998
28-MAY-1998
28-MAY-1998
26-JUN-1998
26-JUN-1998
20-NOV-1998
30-JUL-1998
30-JUL-1998
30-JUL-1998
20-NOV-1998
20-NOV-1998
20-NOV-1999
11-MAR-1999
12-MAR-1999
13-JUN-1999
14-MAY-1999
16-JUN-1999
17-JUL-1999
18-EBB-2000
11-FEB-2000
10-MAR-2000
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11-MAR-2000
                                                                                                                                    GENENTECH INC.
                                                                                                                                                                98US-0086486P.
98US-0087088P.
98US-00987088P.
98US-0091010P.
98US-00910109P.
98US-009101359P.
98US-009101141.
98US-0100338P.
98US-0100338P.
98US-0113296P.
98US-0113296P.
98US-0113296P.
99US-0113296P.
99US-0131022P.
99US-0131022P.
99US-0131022P.
99US-0131022P.
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99US-0131022P.
99US-0131022P.
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99US-0142680P.
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                             KP, Botstein D, Desnoyers L, Eaton DL;
E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt Williams PM, Wood WI;
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RESULT 356
ADG60481/c
ID ADG604
XX ADG604
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XX III-MAR
XX Human
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Best Local Similarity
Matches 17; Conserv
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08-MAR-1999;
28-APR-1999;
25-AUG-1999;
18-FEB-2000;
                                                                                                          Ashkenazi AJ
Ferrara N,
Goddard A,
Kljavin IJ,
Stewart TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      06-NOV-2003
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                                                                                                                                                                                                                                                                                       GENENTECH INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGCCGGAGGCCTTCAGGGTC
                                                                                                       . AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;

1, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;

1, Godowski PJ, Gerimaldi JC, Gurney AL, Hillan KJ;

J, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelt

1, Tumas D, Williams PM, Wood WI;
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99WO-US005028.

99US-0131445P.

99US-00380138.

2000WO-US004341.

2001US-00918585.
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and

transmembrane

PRO

polypeptides

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nucleic

acids, useful

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RESULT 357
AD161241/c
ID AD1612
XX A
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Matches 17
                                                                             Human, 98; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; suditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                                         Human PRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
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    US2003077700-A1
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                                                                                                                                                                                                                                                                                             ADI61241;
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                                         Homo sapiens.
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llarity 85.0%;
Conservative
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26-MAR-1998;
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22-MAXR-2001; 2001WO-US007952.
25-MAXY-2001; 2001WO-US017092.
01-JUN-2001; 2001WO-US017800.
20-JUN-2001; 2001WO-US019692.
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09-JUL-2001; 2001WO-US021735.
30-JUL-2001; 2001US-00918585.
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Ferrara N, 1
Goddard A, (
Kljavin IJ,
Stewart TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide in a sample suspected of containing PRO4993 polypeptide. Similarly, PRO4993 polypeptide is useful for detecting a PRO337
                                                                                                                                                                                                                         Human; secreted and transmembrane protein; PRO; virucide; gene therapy; cell death; growth induction cascade; blood coagulation cascade; viral infection; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated PRO polypeptide e.g. PRO200, PRO322, PRO540, PRO617 polypeptide, useful for treating sight loss due to pigmentosum by enhancing retinal neural cells survival.
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Ferrara N,
                              Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
                                                                                    WPI; 2003-714082/68.
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Filvaroff E,
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This invention describes a novel method for sorting single-stranded conclusive acids by isolation and hybridisation of nucleic acid pools, then comprise variable the nucleic acids are selectively bound using capture comprises that are (a) immobilised on the surface of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonucleotides have a 5'-invariable anchor region, the complement of which is present at cell east once in each nucleic acid and a 3'-variable, discriminatory region comprises all possible combinations of up to 10 nucleotides to allow binding of particular sorts of single stranded nucleic acids. The capture capture oligonucleotides are binding of particularly locked nucleic acids (LNA) and the anchor region comprises a sequence of 10-50, particularly 15-25, T residues. The capture comprises a sequence of the materix is of plastic, ceramic, glass, conducting properties and especially in the form of a surface by conducting properties and especially in the form of a chip. Its surface stranded nucleic acids to the surface is (quasi) covalent, supramolecular, compounds and binding of single stranded nucleic acids to the surface is (quasi) covalent, supramolecular, compounds, stimulated by an electrical field or through a molecular sieve. The method is used (i) for analysis of patterns, especially in mucosal, cardistives or supplements, especially minerals, trace elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and cardistives, salts and car
Sequence 21 BP; 1 A; 1 C; 1 G; 18 T; 0 U; 0 Other;
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                                                                                                                             capture probes used in the method of the invention.
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RESULT 360 ADK01314/c ss; hybridisation; capture oligonucleotide; pattern; mucosal; hair root; blood; nerve; germ cell; food additive; food supplement. 06-MAY-2004 Boekenkamp D, 28-FEB-2002; 2002DE-01008794. 28-FEB-2002; 2002DE-01008794 04-SEP-2003 DE10208794-A1 Rat DNA microarray capture oligonucleotide #34. ADK01314; ADK01314 standard; (DEGS ) DEGUSSA BIOACTIVES GMBH 2 TITTTTTTTTTTTTTCAG 21 (first Dieck HT, DNA; entry) 21 ВP

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blood; nerve; germ cell; food additive; food supplement.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
                                          (DEGS ) DEGUSSA BIOACTIVES GMBH
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17; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGAAAAAAAAAAAAAAAAAA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1.1%;
85.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 15.2;
Pred. No. 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3.4e+02;
3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
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RESULT 362 ADK01333/c ID ADK013

ADK01333 standard; DNA; 21 BP

S

Matches Query Match Best Local

Similarity

85.0%;

Score 15.2; DB 1 Pred. No. 3.4e+02 Mismatches

DB 1; Length

3; Indels

0,

Сарв

0

Conservative

<u>,</u>

멍

Rattus

28-FEB-2002; 2002DE-01008794.

04-SEP-2003.

ss; hybridisation; capture oligonucleotide; pattern; mucosal; hair root; blood; nerve; germ cell; food additive; food supplement.

Rat DNA microarray capture oligonucleotide

#53

06-MAY-2004 ADK01333;

(first entry)

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CC This invention describes a novel method for sorting single-stranded CC nucleic acids by isolation and hybridisation of nucleic acid pools, then CC reading out, where the nucleic acids are selectively bound using capture CC agents that are (a) immobilised on the surface of a solid matrix and (b) CC comprise variable and non-variable regions. The capture oligonucleotides have a 5'-invariable anchor region, the complement of which is present at CC least once in each nucleic acid and a 3'-variable, discriminatory region that comprises all possible combinations of up to 10 nucleotides to allow CC binding of particular sorts of single stranded nucleic acids. The capture agents are particularly locked nucleic acids (LMA) and the anchor region CC capture oligonucleotides are biotinylated and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, CC conducting properties and especially in the form of a chip. Its surface is particularly a layer of (bio)molecular fillments and binding of single stranded nucleic acids to the surface is (quasi)covalent, supramolecular, CC physical, stimulated by an electrical field or through a molecular sieve. The method is used (i) for analysis of patterns, especially in mucossal, cadditives or supplements. especially minerals. trace elements. organic additives or supplements. especially minerals.
                                               additives or supplements, especially minerals, trace elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and mixtures. The method provides rapid, inexpensive and reproducible representation of differences in pools of nucleic acids from cells. It allows imaging of the complete pattern of all nucleic acid in a cell, and can detect very small differences in the nucleic acid pool. Since the method is based on comparison of nucleic acid pools, not individual genes, matrix miniaturisation is possible. ADK01281-ADK01344 represent capture probes used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
Sequence 21 BP; 2 A; 1 C; 0 G; 18 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example; Page 5; 8pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Boekenkamp D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              and constant regions
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RESULT 363
ADK01297/c
ID ADK012
XX ADK012
XC ADK012
XC O6-MAY
XX DE Rat DN
XX B8; hy
KW B100d;
XX SRattue
XX PN DE1020
XX
                                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CC have a 5'-invariable anchor region, the complement of which is present at CC least once in each nucleic acid and a 3'-variable, discriminatory region that comprises all possible combinations of up to 10 nucleotides to allow cC binding of particular sorts of single stranded nucleic acids. The capture agents are particularly locked nucleic acids (INA) and the anchor region CC capture oligonucleotides are biotinylated and immobilised on a surface by cinteraction with streptavidin. The matrix is of plastic, ceramic, glass, CC endutting properties and especially in the form of a chip. Its surface by cranded nucleic acids (INA) and the anchor region CC conducting properties and especially in the form of a chip. Its surface by stranded nucleic acids to the surface is (quasi) covalent, supramolecular, CC physical, stimulated by an electrical field or through a molecular sieve. The method is used (i) for analysis of patterns, especially in mucosal, carids (amino, carboxylic or fatty acid) or their derivatives, or parmaceuticals and/or nutritional compounds, e.g. food cacids (amino, carboxylic or fatty acid) or their derivatives, salts and CC ancids (amino of differences in pools of nucleic acid from cells. It callows imaging of the complete spattern of all nucleic acid in a cell, and CC ancepture morbed provides rapid, inexpensive and reproducible (can detect very small differences in the nucleic acid pool. Since the method in the method of nucleic acid pools, not individual content on the properties of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This invention describes a novel method for sorting single-stranded nucleic acids by isolation and hybridisation of nucleic acid pools, then reading out, where the nucleic acids are selectively bound using capture agents that are (a) immobilised on the surface of a solid matrix and (b)
                          DE10208794-A1
                                                              Rattus sp.
                                                                                                                             ss; hybridisation;
                                                                                                                                                                  Rat DNA microarray capture oligonucleotide #17.
                                                                                                                                                                                                              06-MAY-2004
                                                                                                                                                                                                                                                       ADK01297;
                                                                                                                                                                                                                                                                                                ADK01297 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             reading out, where the nucleic acids are selectively bound agents that are (a) immobilised on the surface of a solid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sorting single-stranded patterns and screening a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-714082/68
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              capture probes used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          comprise variable and non-variable regions. The capture oligonucleotides
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                                                                                                                                                                                                                                                                                                                                                                                                                                             1518 ТТАААААААААААСТААА 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      al Similarity
                                                                                                                                                                                                                                                                                                                                                                                                        21
                                                                                                          nerve;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DEGUSSA BIOACTIVES GMBH.
                                                                                                                                                                                                                                                                                                                                                                                                      TCAAAAAAAAAAAAAAA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP; 1 A; 0 C; 1 G; 19 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              le-stranded nucleic acid, useful for analyzing expression screening active agents, uses capture agent with variable
                                                                                                                                                                                                              (first entry)
                                                                                                        germ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Dieck HT,
                                                                                                          capture oligonucleotide; pattern; mucosal; hair root; cell; food additive; food supplement.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1.1%;
                                                                                                                                                                                                                                                                                                  21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 15.2;
Pred. No. 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3.4e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 1; Length 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0,
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ADK01337/
ID ADK0
XX
AC ADK0
AC ADK0
DT 06-M
XX
DE Rat
XX
KW 88;
KW 88;
KW bloo

06-MAY-2004 ADK01337;

(first entry)

ss; hybridisation; capture oligonucleotide; pattern; mucosal; hair root;

blood; nerve; germ cell; food additive; food supplement

Rat DNA microarray capture oligonucleotide #57

RESULT 364

ADK01337 standard;

DNA;

21

股

밁 Ş

21

TTCAAAAAAAAAAAAAAA 2

1518 ТТАЛАЛАЛАЛАЛАГТАЛАЛ 1537

Query Match Best Local Matches

Similarity

1.1%;

Score 15.2; Pred. No. 3. Mismatches

3.4e+02; DB 1;

Length 21; Indels

0,

Gaps

0

Conservative

0;

Sequence 21 BP; 2 A; 0 C; 1 G; 18 T; 0 U; 0 Other;

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contribution describes a novel method for sorting single-stranded concleic acids by isolation and hybridisation of nucleic acid pools, then creading out, where the nucleic acids are selectively bound using capture cagents that are (a) immobilised on the surface of a solid metrix and (b) comprise variable and non-variable regions. The capture oligonucleotides have a 5'-invariable anchor region, the complement of which is present at clear once in each nucleic acid and a 3'-variable, discriminatory region that comprises all possible combinations of up to 10 nucleotides to allow binding of particularly locked nucleic acids (LNA) and the anchor region comprises a sequence of 10-50, particularly 15-25. T residues. The capture oligonucleotides are biotinylated and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, conducting properties and especially in the form of a chip. Its surface is particularly a layer of (bio)molecular filaments and binding of single conducting properties and especially in the form of a chip. Its surface is particularly a layer of (bio)molecular filaments and binding of single carrivity of pharmaceuticals and/or nutritional compounds, e.g. food caditives or supplements, especially minerals, trace elements, organic cards (amino, carboxylic or fatty acid) or their derivatives, salts and cards (amino, carboxylic or fatty acid) or their derivatives, salts and cards (amino, carboxylic or fatty acid) or their derivatives, salts and cards elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and card detect very small differences in pools of nucleic acid from cells. It allows imaging of the comparison of nucleic acid pools, not individual capture probes used in the method of the invention.
Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example; Page 5; 8pp; German
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           and constant regions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2003-714082/68.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-FEB-2002; 2002DE-01008794
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-FEB-2002; 2002DE-01008794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Dieck HT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      норре н;
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RESULT 365
ADK01299/c
ID ADK012
XX
AC ADK012
AC ADK012
XX
DT 06-MAY
XX
DE Rat DN
                                                                                                                                                                                                                                                                                                                                                                                                             This invention describes a novel method for sorting single-stranded conveled acids by isolation and hybridisation of nucleic acid pools, then capture that are (a) immobilised on the surface of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonucleotides have a 5'-invariable anchor region, the complement of which is present at CC least once in each nucleic acid and a 3'-variable, discriminatory region that comprises all possible combinations of up to 10 nucleotides to allow binding of particular sorts of single stranded nucleic acids. The capture CC agents are particularly locked nucleic acids (LMA) and the anchor region comprises a sequence of 10-50, particularly 15-25, T residues. The conducting properties and especially in the form of a chip. Its surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, conducting properties and especially in the form of a chip. Its surface is particularly a layer of (bio)molecular filaments and binding of single stranded nucleic acids to the surface is (quasi)covalent, supramolecular, conducting properties and especially in the form of a chip. Its surface is particularly allyer of (bio)molecular filaments and binding of single stranded nucleic acids to the surface is (quasi)covalent, supramolecular, chair root, blood, nerve or germ cells and (ii) for determining the activity of pharmaceuticals and/or nutritional compounds, e.g. food additives or supplements, especially minerals, trace elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and firences in the mucleic acid from cells. It allows imaging of the complete pattern of all nucleic acid in a cell, and can detect very small differences in the nucleic acid pool. Since the method is based on comparison of nucleic acid pools, not individual capture probes used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                            5
                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable and constant regions.
  Rat DNA microarray capture oligonucleotide #19.
                                         06-MAY-2004 (first entry)
                                                                                ADK01299;
                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example; Page 6; 8pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2003-714082/68
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                                                                                                                          ADK01299 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-FEB-2002; 2002DE-01008794
                                                                                                                                                                                                                         21
                                                                                                                                                                                                                                                                                                      1 Similarity
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                                                                                                                                                                                                                                                                TTAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                                                                                    21
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                                                                                                                                                                                                                                                                                                                                                                                  BP; 1 A; 1 C; 0 G; 19 T; 0 U;
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                                                                                                                                                                                                                                                                                                                      1.1%;
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                                                                                                                          BP
                                                                                                                                                                                                                                                                                                      <u>.</u>
                                                                                                                                                                                                                                                                                                                      Score 15.2; DB 1; Length 21; Pred. No. 3.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                  0 Other;
                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                      0,
                                                                                                                                                                                                                                                                                                    Gaps
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RESULT 366 ADK01315/c

axu

ADK01315 standard; DNA; 21 BP

0

ADK01315;

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밁
                                 8
                                                                                                                                                                                                                     CC have a 5'-invariable anchor region, the complement of which is present at the comprises all possible combinations of which is present at that comprises all possible combinations of which is present at that comprises all possible combinations of the control of which is present at the comprises all possible combinations of the control of which is present at the comprises are particular sorts of single stranded nucleic acids. The capture obiding of particularly locked nucleic acids (LMA) and the anchor region of comprises a sequence of 10-50, particularly 15-25, T residues. The comprises a sequence of 10-50, particularly 15-25, T residues. The comprises a sequence of 10-50, particularly is 5-25, T residues. The comprise of the stranded nucleic acids the material and/or membrane, having semicated the conducting properties and especially in the form of a chip. Its surface by the stranded nucleic acids to the surface is (quasi) covalent, supramolecular, comprised by an electrical field or through a molecular sieve. The method is used (i) for analysis of patterns, especially in mucosal, that root, blood, nerve or germ cells and (ii) for determining the catific candidatives or supplements, especially minerals, trace elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and captures. The method provides rapid, inexpensive and reproducible cations inaging of the complete pattern of all nucleic acid in a cell, and capture probes of mattern properties. It is conducible to the method of comparison of nucleic acid pool. Since the capture probes used in the method of the invention.
                                                                               Query Match
Best Local S
Matches. 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ss; hybridisation; capture oligonucleotide; pattern; mucosal; hair root; blood; nerve; germ cell; food additive; food supplement.
                                                                                                                                                                   Sequence 21 BP;
                                                                                                                                                                                                             capture
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              reading out, where the nucleic acids are selectively bound using capture agents that are (a) immobilised on the surface of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This invention describes a novel method for sorting single-stranded nucleic acids by isolation and hybridisation of nucleic acid pools, then
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example; Page 5; 8pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-714082/68
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-FEB-2002; 2002DE-01008794.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      constant
                                                                                                     Similarity
                                                                                                                                                                                                             probes used in the method of the invention.
                          TTAAAAAAAAAAAAGTAAAA 1537
  TCAAAAAAAAAAAAAAAAA 1
                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      regions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Dieck
                                                                                                                                                                   1 A;
                                                                                                   1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HT,
                                                                                                                                                                   1 C; 1 G; 18 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 норре н;
                                                                                 0
                                                                                                   Score 15.2; DB 1;
Pred. No. 3.4e+02
                                                                                 Mismatches
                                                                                                                           DB 1;
                                                                                                                         Length 21;
                                                                                   Indels
                                                                                 0
                                                                                 Gaps
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Rat DNA microarray capture oligonucleotide #35

06-MAY-2004 (first entry)

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This invention describes a novel method for sorting single-stranded concluded acids by isolation and hybridisation of nucleic acid pools, then concluded are (a) immobilised on the surface of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonucleotides have a 5'-invariable anchor region, the complement of which is present at cleast once in each nucleic acid and a 3'-variable, discriminatory region that comprises all possible combinations of up to 10 nucleotides to allow comprises all possible combinations of up to 10 nucleotides to allow binding of particularly locked nucleic acids (LNA) and the anchor region comprises a sequence of 10-50, particularly 15-25, T residues. The capture comprises a sequence of 10-50, particularly 15-25, T residues. The conducting properties and especially in the form of a chip. Its surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, conducting properties and especially in the form of a chip. Its surface is particularly a layer of (bio)molecular filaments and binding of single stranded nucleic acids to the surface is (quasi) covalent, supramolecular, shysical, stimulated by an electrical field or through a molecular sieve. The method is used (i) for analysis of patterns, especially in mucosal, having semi-cot, blood, nerve or germ cells and (ii) for determining the activity of pharmaceuticals and/or nutritional compounds, e.g. food additives or supplements, especially minerals, trace elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and card elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and card elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and card elements, especially minerals, trace elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and card elements and card elements and card form cells. It card elements are call and card elements are cell, and card elements are cel
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                                                                                                                                                                       Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Boekenkamp D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28-FEB-2002; 2002DE-01008794.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              hybridisation; capture oligonucleotide; pattern; mucosal; hair root; od; nerve; germ cell; food additive; food supplement.
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                                                                                                     Similarity
                                                                                                                                                                         21
                                        TTAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                       BP; 1 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Dieck HT, Hoppe H;
                                                                                                                                                                       2 C; 0 G; 18
                                                                                                     1.1%;
                                                                                   0;
                                                                                 Score 15.2; DB 1; Length 21; Pred. No. 3.4e+02; O; Mismatches 3; Indels
                                                                                                                                                                       T; 0 U; 0 Other;
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RESULT

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1518 TTAAAAAAAAAAAAAGTAAAA 1537

Matches

Similarity

1.1%;

Score 15.2; Pred. No. 3 Mismatches

.4e+02

0

Gaps

0

DB 1; Length 21; Indels

Conservative

0;

Sequence

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ADK01299/c
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O6-MAY
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CDEGS
PH Boeken
DR
RWI; 2

                                                        This invention describes a novel method for sorting single-stranded councies acids by isolation and hybridisation of nucleic acids pools, then correctly bound using capture cagents that are (a) immobilised on the surface of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonuclectides have a 5'-invariable anchor region, the complement of which is present at clear once in each nucleic acid and a 3'-variable, discriminatory region that comprises all possible combinations of up to 10 nucleotides to allow binding of particular sorts of single stranded nucleic acids. The capture cagents are particularly looked nucleic acids (LMA) and the anchor region comprises a sequence of 10-50, particularly 15-25, T residues. The capture conducting properties and especially in the form of a chip. Its surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, conducting properties and especially in the form of a chip. Its surface is particularly a layer of (biol)molecular filaments and binding of single stranded nucleic acids to the surface is (quasi)covalent, supramolecular, physical, stimulated by an electrical field or through a molecular sieve. The method is used (i) for analysis of patterns, especially in mucosal, having semicativity of pharmaceuticals and/or nutritional compounds, e.g. food additives or supplaments, especially minerals, trace elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and can detect very small differences in pools of nucleic acids from cells. It can detect very small differences in pools of nucleic acids from cells. It can detect very small differences in the mucleic acid pools, not individual comparison of nucleic acid pools, not individual comparison of nucleic acid pools, not individual compones used in the method of the invention.
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blood; nerve; germ cell; food additive; food supplement.
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        21 BP; 1 A; 0 C; 2 G; 18 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        which probe molecules are immobilised in predetermined regions. The base includes an opening for receiving the carrier and is optically transparent in the region of the detection surface. The carrier is made of glass and/or silicon and the vessel is made of glass (optionally coated with plastics), glass ceramic, plastics or metal. Probes are present in a substance library, especially proteins (e.g. antibodies, receptors and/or membrane proteins), peptides (receptor ligands, pharmaceutically active peptides and/or hormones) or nucleic acids (DNA and/or RNA). The detection system is a camera, especially a charge-coupled device or CMOS camera, optionally fitted with an optical read-out system. The device may include a light source that ensures homogeneous includes and or the camera coupled device or care and the source that ensures homogeneous and the camera coupled the care care and the camera care and canera canera coupled device or care and canera camera care canera c
illumination of the carrier, especially an array of diffusely irradiating sources that are superimposed. These sources are lasers, LED, plane radiators or high-pressure lamps and the cover of the reaction vessel is structured to ensure homogeneous illumination. The system preferably also contains optical filters and optionally a filter exchanger, a semipermeable mirror between light sources and the carrier, a temperature control unit and a computer that collects signal intensities from the detector and converts them to an analogue image. The reaction vessel is in direct contact with the detector and many reaction vessels are arranged for sequential examination. Target molecules are contacted with probes and any interaction detected, e.g. from conventional labels but most preferably the interaction results in precipitation on the array of probes and the time progression of precipitation is detected as a signal intensity. Particularly a soluble precursor is converted into a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This invention describes a novel reaction vessel for detecting specific interactions between molecular targets and probe molecules comprising a laboratory reaction vessel (tube) that has, on its base, a carrier on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 2; Page 21; 38pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Schulz T,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  for detecting a specific interaction between a in medical tests, comprises at its base a carrious.
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RESULT 369
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Best Local (
 18-FEB-2000;
24-FEB-2000;
02-MAR-2000;
10-MAR-2000;
                                                                              30-DEC-1999;
05-JAN-2000;
06-JAN-2000;
                                                                                                                    02-DEC-1999;
16-DEC-1999;
30-DEC-1999;
                                                                                                                                                                         14-MAY-1999;
02-JUN-1999;
30-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Preparation may occur in the presence of a metal (especially gold) clusters or colloidal particles, coupled to the target, and precipitation is detected by reflection, absorption or scattering of a light beam passed through the precipitate. The new vessel is used as a component in a device for performing microarray tests, i.e. interaction of a target with protein, peptide or nucleic acid probes, e.g. for biomedical, including hybridisation or immunological, tests. The reaction vessel is of simple construction, is easy and inexpensive to make and is compatible with other laboratory apparatus (e.g. bench centrifiges and pipettes). Micro-array tests can be performed in a single vessel, reducing the risk of contamination and only relatively simple detectors are required. ADJ99048-ADJ99087 represent probes used to detect the cyp2D6 gene which the invention.
                                                     06-JAN-2000;
11-FEB-2000;
                                                                                                         30-DEC
                                                                                                                                                                                                                                             20-NOV-1998;
05-JAN-1999;
                                                                                                                                                                                                                                                                                                 19-OCT-2001;
                                                                                                                                                                                                                                                                                                                             05-JUN-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                       Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human PRO 362 Taqman PCR probe.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     metallic precipitate, particularly reduction of a silver salt (nitrate, lactate, acetate or tartrate) by formaldehyde or hydroguinone.
                                                                                                                                                                                                                                 08-MAR-1999;
                                                                                                                                                                                                                                                                       07-OCT-1998;
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                                                                                                                                                                                                                                                                                                                                                                                  Homo
                                                                                                                                                                                                                                                                                                                                                                                                          wound healing; hearing loss; probe; in situ hybridisation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-JAN-2004
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99WO-US031274.
2000WO-US000219.
2000WO-US000277.
2000WO-US000376.
2000WO-US003565.
2000WO-US0034341.
2000WO-US00504.
2000WO-US005841.
2000WO-US0058419.
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99WO-US012252.
99WO-US028313.
99WO-US028551.
99WO-US028565.
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99WO-US005190
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Pred. No. 3.4e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cytostatic;
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The invention relates to an isolated PRO polypeptide (secreted or curransmembrane protein) having at least 80% amino acid sequence identity con in the specification (including PRO lacking its associated signal cupptide, a PRO extracellular domain with or without its associated signal comprising to included are nucleic acids encoding the PRO proteins comprising the vector and producing PRO, a chimaeric molecule comprising the PRO protein pRO antibody. PRO337 polypeptide is useful for detecting a PRO protein pRO4939 polypeptide. Similarly, PRO4939 polypeptide is useful for detecting a PRO4939 polypeptide. Similarly, PRO4939 polypeptide is useful for detecting PRO337 polypeptide. PRO700 or PRO739. PRO700 or PRO739 polypeptide is useful for detecting PRO337 polypeptide. Similarly, PRO4900 or PRO739. PRO4993 polypeptide is useful for detecting PRO337 polypeptide. PRO700 or PRO739. PRO4993 polypeptide is useful for detecting PRO337 polypeptide. The bioactive molecule to a cell expressing PRO4993 polypeptide. The bioactive molecule to a cell expressing PRO4993 polypeptide. The bioactive molecule to a cell expressing PRO4993 polypeptide. PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule to a cell expressing PRO4993 polypeptide. PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule to a cell expressing PRO4993 polypeptide. PRO700 or PRO739 polypeptide. PRO4993 polypeptide. PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337 coll propeptide or anti-PRO3737 polypeptide. PRO4993 polypeptide or anti-PRO370 or PRO739 polypeptide or anti-PRO370 or PRO739 polypeptide is useful for modulating the biological activity of the cell expressing PRO700 or PRO739 polypeptide or anti-PRO370 or PRO739 polypeptide is useful for modulating the prosessing PRO725, professing PRO725,
21-MAR-2000;

30-MAR-2000;

17-MAY-2000;

22-MAY-2000;

23-MAY-2000;

20-JUN-2000;

24-JUN-2000;

24-AUG-2000;

24-AUG-2000;

26-FEB-2001;

28-FEB-2001;

28-FEB-2001;

29-JUN-2001;

21-JUN-2001;

20-JUN-2001;

20-JUN-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ashkenazi AJ
Ferrara N,
Goddard A,
Kljavin IJ,
Stewart TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2004-008994/01.
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Godowski PJ,
Kuo SS, Napi
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2000WO-US018439

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2000WO-US015264

2000WO-US015264

2000WO-US020710

2000WO-US02328

2000WO-US02328

2000WO-US032678

2000WO-US032678

2000WO-US032678

2001WO-US006520

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      I nucleic acid encoding a PRO polypeptide, e.gul in molecular biology, chromosome and gene intisense RNA and DNA, and in gene therapy.
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E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt
Williams PM, Wood WI;
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e.g. PRO4993 ene mapping, :

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Shelton DL;

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Matches 17
27-MAR-1998;
30-MAR-1998;
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01-APR-1998;
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08-APR-1998;
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11-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         auditory;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       , PCR; secreted protein; transmembrane protein; PRO; cytostatilogical; antiarthritic; osteopathic; antirheumatic; vulnerary; tumour growth; retinal disorder; sports-related joint problem cartilage defects; osteoarthritis; rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        362 Taqman
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S-0080194P.
S-0080327P.
S-0080328P.
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S-0080105P.
S-0080107P.
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3-0078936P.
3-0078939P.
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3-0080334P.
3-0081049P.
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Pred. No. 3.4e+02
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Query Match 1.1%;
Best Local Similarity 85.0%;
Matches 17; Conservative
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23-JUN-1999
07-JUL-1999
26-JUL-1999
28-JUL-1999
29-OCT-1999
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21-MAR-2000
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BAKER D.
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DESNOYERS L.
EATON D L.
FERRARA N.
FILVAROFF E.
FONG S.
GAO W.
GERBER H.
GERRITSEN M I
GODDARD A.
GODOWSKI P J.
GODOWSKI P J.
GIRMALDI J C.
GURNEY A L.
HILLAN K J.
HILLAN K J.
KLJAVIN I J.
KUO S S.
NAPIER M A.
PAONI N F.
ROY M A.
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ROY M A.
STEWART T A.
TUMAS D.
WILLIAMS P M.
WOOD W I.
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99US-0142680P.
99US-0145698P.
99US-0162506P.
99US-0162506P.
99WO-US028551.
99WO-US028551.
99WO-US031274.
2000WO-US031274.
2000WO-US030277.
2000WO-US000376.
2000WO-US000376.
2000WO-US000316.
2000WO-US000316.
2000WO-US000319.
2000WO-US008411.
2000WO-US008419.
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2000WO-US014941.
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; Score 15.2; DI
; Pred. No. 3.4e-
0; Mismatches
  3.4e+02;
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                                                    Length
       Indels
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       0
       Gaps
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98US-008570P
98US-008573P
98US-008570P
98US-00857

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RESULT 371
ADF61639/c
ID ADF61639/c
XX Human; sss
XW Human; sss
XW Auditczy;
XW auditczy;
XW auditczy;
XW Wound heal
XX W Wound heal
XX Homo sapis
XX IO-OCT-109
PF 21-OCT-200
XX 21-OCT
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17-OCT-1997
13-NOV-1997
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11-MAR-1998
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970S-006331P

970S-0063364P

980S-0077641P

980S-0077641P

980S-00778004P

980S-00778004P

980S-0078936P

980S-0079939P

980S-00799564P

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26-JUN 1998
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27-APR 1999
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   98US-0082704P
98US-0082796P
98US-0083332P
98US-0083332P
98US-0083496P
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98US-008582P
98US-014658P
99US-0145698P
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RESULT 372
ADF40331/c
ID ADF40331 standard; DNA; 21
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Best Local S
Matches 17
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16-DEC-1999
30-DEC-1999
30-DEC-1999
30-DEC-1999
05-JAN-2000
06-JAN-2000
11-FEB-2000
11-FAX-2000
11-FAX-2000
11-FAX-2000
11-FAX-2000
11-FEB-2000
11-FEB
                                                                                                                                                                                                      The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO493 polypeptide in useful for detecting PRO493 polypeptide. Similarly, PRO4933 polypeptide is useful for detecting PRO4931 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL; Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME; Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ; Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelt-Stewart TA, Tumas D, Williams PM, Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         New PRO nucleic acid, useful for treating e.g. osteoarthritis, rheumatoid arthritis, obesity, hyperinsulinemia, hypoinsulinemia or wounds.
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                                                                                                  GGCCGAAGGCCCGCAGGGTC
                                                                               GGCCGGAGGCCTTCAGGGTC 1
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2000WO-US0003565
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2000WO-US005841
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2000WO-US005841
2000WO-US007532
2000WO-US013705
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2000WO-US013705
2001WO-US013705
2001WO-US0158585
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ilarity 85.0%;
Conservative
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99WO-US028565.
99WO-US030095.
99WO-US031243.
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 ВP
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Pred. No. 3.
                                                                                                               414
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                                                                                                                                                                         Length 21;
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ADF40331;
Human PRO 362 Taqman PCR probe.
                          12-FEB-2004
                          (first entry)
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Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.

11-MAR-1998 13-MAR-1998 13-MAR-1998 20-MAR-1998 20-MAR-1998 20-MAR-1998 20-MAR-1998 20-MAR-1998 27-MAR-1998 27-MAR-1998 27-MAR-1998 27-MAR-1998 27-MAR-1998 31-MAR-1998 31-APR-1998 31-APR-1998 31-APR-1998 31-APR-1998 32-APR-1998 22-APR-1998 22-APR-1998 22-APR-1998 22-APR-1998 23-APR-1998 21-NOV-1997; 10-MAR-1998; 11-MAR-1998; 11-MAR-1998; 03-NOV-1997; 17-OCT-1997; US2003198994-A1. Homo sapiens 24-OCT-2001; 2001US-00020445 98US-0078939P 98US-0079294P 98US-0079663P 98US-0079663P 98US-0079786P 98US-0079786P 98US-0079786P 98US-0080107P 98US-0080107P 98US-0080107P 98US-0080132P 98US-0080334P 98US-008195P 98US-0082797P 98US-0078004P. 98US-00040220. 98US-0078886P. 98US-0078910P. 98US-98US 97US-0065311P 97US-0062250P S-0077641P. S-0077649P. S-0077791P. S-0078004P. -0077632P

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RESULT 373
ADF46127/c
ID ADF46127 standard; D
XX
AC ADF46127;
XX
AC 12-FEB-2004 (first
XX
DT 12-FEB-2004 (first
XX
DE Human PRO 362 Taqman
XX
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Best Local S
Matches 17
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26-JUL-1999;
26-JUL-1999;
25-AUG-1999;
25-AUG-1999;
26-JEC-1999;
27-DEC-1999;
28-JUN-2000;
28-JUN-2000;
28-JUN-2000;
28-JUN-2000;
28-JUN-2000;
29-JUN-2000;
21-MAX-2000;
21-MAX-2001;
21-MA
                    Human PRO 362 Taqman PCR probe
                                                       12-FEB-2004 (first entry)
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l Similarity 85.0%;
17; Conservative
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99US-014568BP
99US-0146222P
99US-003801438
99US-003801438
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2000WO-US015264
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29-APR-1998
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24-MAY-1998
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29-MAR-1999
21-APR-1999

98US-0083392 98US-0083496p 98US-0083545p 98US-0083554p 98US-0083554p 98US-0083554p 98US-0084690 98US-0084690 98US-0084690 98US-0084690 98US-0084637p 98US-0084637p 98US-0084637p 98US-0085573p 98US-0085573p 98US-00855892p 98US-00855892p 98US-00856892p 98US-00856892p 98US-00856892p 98US-008569338p 98US-0085693p 98US-0085693p 98US-0085693p 98US-0086414p 98US-0085693p 98US-0086414p 98US-00863139p 98US-00863139p 98US-00863139p 98US-00863139p 98US-0015413 98US-0015413 98US-0015413 98US-00168704p 99US-00131136773p 99US-0013113627p 99US-001311322p 99US-001311322p

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07-JUL-1999; 26-JUL-1999; 28-JUL-1999; 25-AUG-1999; 25-AUG-1999; 29-OCT-1999;	4-MAY-199 4-MAY-199 2-JUN-199 6-JUN-199 3-JUN-199	8-APR-199 4-MAY-199 4-MAY-199	9-MAR-199 2-APR-199 1-APR-199	0-MAR-199 2-MAR-199 2-MAR-199	5-MAR-199 8-MAR-199 0-MAR-199	3-DEC-199 5-JAN-199	7-DEC-199 2-DEC-199	0-NOV-1998	2-NOV-1998 6-NOV-1998	7-OCT-1998 7-OCT-1998	0-JUL-1998 1-SEP-1998	6-JUN-1998	9661-NOL-9	8-MAY-1998 8-MAY-1998	2-MAY-1998 8-MAY-1998	2-MAY-1998 2-MAY-1998	8-MAY-1998 2-MAY-1998	5-MAY-1998	5-MAY-1998	5-MAY-1998	5-MAY-1998	3-MAY-1998	3-MAY-199	7-MAY-1998	7-MAY-199 7-MAY-199	7-MAY-1998 7-MAY-1998	6-MAY-199	5-MAY-199	9-APK-199 0-APR-199	9-APR-199
99US-0142680P. 99US-0145698P. 99US-0146222P. 99US-00380138. 99US-00380142. 99US-0162506P.	9WO-US01071 9WO-US01272 9WO-US01225 9WS-0139557	9US-0031183 9US-0031183 9US-0038013	9US-012677 9US-0028429 9US-0130233	9WO-US005190 9US-00267213 9US-0123957P	9US-0025446 9WO-US00502 9US-0026568	8US-0113621 9WO-US00010	8US-0021851 8US-0113296	8US-0109304P 8WO-US024855	8US-00184216 8US-00187368	8WO-US02114	8US-0094651P	8US-0091010	8US-0010541	8US-0087106 8US-0087208	8US-0086486 8US-0087098	8US-0086414 8US-0086430	8US-0086392	8US-0085704	80S-0085697	8US-0085582	8US-0085579	8US-0085339	8US-0085323	8US-0084640	8US-0084637 8US-0084639	8US-0084600 8US-0084627	8US-0084598	8US-0084414	8US-0083742 8US-0083742	eus-0083556

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RESULT 374
ADF24523/C
ID ADF245
XX ADF245
XX ADF245
XX ADF245
XX II-FEB
XX II-FEB
XX Human
XX Human
XX Human
XX Human
XX Human
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KW audito
XX wound
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XX Human
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Matches 17
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30-DEC-1999
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06-JAN-2000
07-WAR-2000
07-WAR
                                   Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
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2000WO-US003363
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99WO-US028551.
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Pred. No. 3.4e
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13-NOV-1997;
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98US-0079839P

98US-0079664P

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98US-00797664P

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3-0077450P.
3-0077632P.
3-0077641P.
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30-MAY-2000
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24-AUG-2000
01-DEC-2000
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28-FEB-2001
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22-MAR-2001
25-MAY-2001
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30-MAR-2000;
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2000WO-US023328
2000WO-US032678
2000WO-US034956
2000WO-US034956
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2001WO-US009552
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2001WO-US021735
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## GENENTECH INC.

Ferrara Goddard Kljavin Stewart Ashkenazi AJ, Baker ...
N. Filvaroff A C C C AJ, Baker KP, Filvaroff E, Godowski PJ, Kuo SS, Nap KP, Botstein D, Desnoyers L, Eaton E, Fong S, Gao W, Gerber H, Gerri PJ, Grimaldi JC, Gurney AL, Hillan Napier MA, Pan J, Paoni NF, Roy MA Williams PM, Wood WI; Roy MA, Gerritsen ME; ፭ Shelton

neuropathies polypeptide useful for treating peripheral neuropathy, or thies associated with systemic disease such as post-polio ired immunodeficiency syndrome-associated syndrome. syndrome

Example 114; SEQ ID NO 564; 459pp; English.

CC comprising the vector and producing PRO, a chimaeric molecule comprising the vector and producing PRO, a chimaeric molecule comprising CC antibody. PRO337 polypeptide is useful for detecting a PRO493 CC polypeptide in a sample suspected of containing PRO493 polypeptide. PRO735, PRO700 or PRO735 polypeptide is useful for detecting PRO337 CC polypeptide. PRO735, PRO700 or PRO735 polypeptide is useful for detecting PRO335 polypeptide. PRO735 polypeptide is useful for detecting PRO355 polypeptide. PRO730 or PRO739 polypeptide is useful for linking a bloactive molecule to a cell expressing PRO337 polypeptide. The bloactive molecule to the toxin, radiolabel, or an antibody. The bloactive molecule to a cell expressing PRO337 polypeptide is useful for linking a bloactive molecule to a cell expressing PRO339 polypeptide; PRO725, PRO700 or PRO739 polypeptide are useful for linking a bloactive molecule to a cell expressing PRO337 polypeptide; PRO735 polypeptide is useful for linking a bloactive molecule to a cell expressing PRO337 polypeptide; PRO735 polypeptide is useful for linking a bloactive molecule to a cell expressing PRO337 polypeptide or anti-PRO337 cc propeptide is useful for modulating at least one biological activity of the cell expressing PRO337 polypeptide is useful for modulating the cell expressing PRO337 polypeptide is useful for modulating the cell expressing PRO337 polypeptide is useful for modulating the promasulating the biological activity of the cell expressing PRO337 polypeptide is useful for modulating the promasulating the biological activity of the cell expressing PRO3559 polypeptide is useful for modulating the biological activity of the cell expressing PRO3559 polypeptide is useful for modulating the biological activity of the cell expressing PRO3559 polypeptide is useful for modulating the biological activity of the cell expressing PRO3559 polypeptide is useful for modulating the biological activity of the cell expressing PRO3559 polypeptide is useful for modulating the biological activity transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell relates to an isolated PRO polypeptide (secreted

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RESULT 375
ADF40955/c
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               osteoarthritis or rheumatoid arthritis, wound healing and hearing loss mammals. The present sequence is a Taqman PCR probe used investigate PF
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                                                                                                                                                                                                                                                                                                                                                                                                                       Human PRO
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tumour cell lines.
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U;
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US2003199021-A1

23-OCT-2003

25-OCT-2001; 2001US-00013924.

30-JUL-2001; 2001US-00918585

(GETH ) GENENTECH INC.

Ashkenazi AJ, Baker KP, I Ferrara N, Filvaroff E, I Goddard A, Godowski PJ, ( Kljavin IJ, Kuo SS, Napi Stewart TA, Tumas D, Wil Napier MA, P; , Williams PM, Botstein D, Desnoyers L, Eaton DL; Fong S, Gao W, Gerber H, Gerritsen ME; Grimaldi JC, Gurney AL, Hillan KJ; ier MA, Pan J, Paoni NF, Roy MA, Shelt. lliams PM, Wood WI; Shelton

WPI; 2004-041351/04.

hypoinsulinemia or wounds New nucleic acid encoding a secreted and transmembrane polypeptide, useful for treating e.g. lung or breast tumors, osteoarthritis, rheumatoid arthritis, obesity, diabetes, hyperinsulinemia,

Example 114; SEQ ID NO 564; 461pp; English

The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal compitated. Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO379 polypeptide is useful for detecting a PRO4993 polypeptide. Similarly, PRO4993 polypeptide is useful for detecting PRO375 polypeptide. Similarly, PRO785, PRO700 or PRO399 polypeptide is useful for detecting PRO375, PRO700 or PRO399. PRO4993 polypeptide is useful for detecting professions professions.

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RESULT 376
ADF23899/c
ID ADF238
XX ADF238
XX ADF238
XX Human
XX Human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive causes death of the cell. PRO337 polypeptide is useful for linking a CC bioactive molecule to a cell expressing PRO493 polypeptide; PRO725, CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule to a cell expressing PRO4939 polypeptide; PRO725, CC pro700 or PRO739 polypeptide. PRO4939 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO725, CC pro700 or PRO739 polypeptide. PRO493 polypeptide or anti-PRO337 CC pro700 or PRO739 polypeptide. PRO493 polypeptide or anti-PRO337 CC pro700 or PRO739 polypeptide. PRO493 polypeptide or anti-PRO337 CC polypeptide or anti-PRO493 polypeptide is useful for modulating the coll propeptide or anti-PRO493 polypeptide is useful for modulating the collogical activity of the cell expressing PRO725, CC polypeptide or anti-PRO493 polypeptide is useful for modulating the biological activity of the cell expressing PRO725, CC polypeptide; and PRO1559 polypeptide or anti-PRO739 polypeptide is useful for modulating the biological activity of the cell expressing PRO725, CC pro700 or PRO739 polypeptide or an anti-PRO725, anti-PRO700 or anti-PRO719 polypeptide is useful for modulating the biological activity of the cell expressing PRO559 polypeptide. The professing PRO725, PRO700 or PRO739 polypeptide is useful for modulating the biological activity of collections or related joint problems, articular cartilage defects, sports-related joint problems, articular cartilage defects, costcoarthritis or rheumatoid arthritis, wound healing and hearing loss in content activity of costcoarthritis or rheumatoid arthritis, wound healing and hearing loss in gene amplification in certain tumour cell lines.
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Best Local S
Matches 17
 17-OCT-1997
03-NOV-1997
13-NOV-1997
21-NOV-1997
21-NOV-1997
11-MAR-1998
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                                                                                                                                                                                                                                                                                                                                                                                                 Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
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 97US-0066364P.
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98US-0077641P.
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98US-0078004P.
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     3-0085579P.
-0085582P.
-0085689P.
-0085704P.
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-0086436P.
-0086486P.
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3-008441P

3-008449P

3-0084600P

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3-0083545P.
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RESULT 377
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 29-APR-1998
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20-NOV-1998
05-JAN-1999
08-MAR-1999
10-MAR-1999
11-APR-1999
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10-MAY-2001;
.10-MAY-2001;
25-MAY-2001;
01-JUN-2001;
01-JUN-2001;
05-JUN-2001;
14-JUN-2001;
19-JUN-2001;
20-JUN-2001;
20-JUN-2001;
20-JUN-2001;
30-JUL-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo
                                                                                                                                                                                                                                                                                                                                                                                                       19-OCT-2001;
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l Similarity 85.0%;
17; Conservative
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98WO-US021141

99WO-US000106

99WO-US000106

99WO-US005190

99WO-US01733

99WO-US01252

99WO-US012252

99WO-US028313

99WO-US028313

99WO-US028313

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99WO-US02851

99WO-US031274

2000WO-US000277

2000WO-US000376

2000WO-US004341

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2001US-00854200

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2001WO-US017092

2001WO-US017803

2001US-00874503

2001US-00874503

2001US-00886345

2001US-00886345

2001WO-US019692

2001WO-US019692

2001WO-US01965

2001WO-US01965
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98WO-US021141.
98WO-US024855.
99WO-US000106.
99WO-US005028.
99WO-US005190.
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Pred. No. 3.
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3;
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28-MAY 1998
26-JUN 1998
26-JUN 1998
26-JUN 1998
26-JUN 1998
01-JUL 1998
01-JUL 1998
07-OCT 1998
06-NOV 1998
07-DCC 1998
27-DEC 1998
27-DEC 1998
27-DEC 1998
27-DEC 1998
27-DEC 1998
28-JUL 1999
11-MAR 1999
11-MAR

98US-0087106P
98US-0087208P
98US-00105413
98US-00105413
98US-00105413
98US-00105413
98US-001068978
98US-00168978
98US-00168978
98US-00168978
98US-00168978
98US-001187316
98US-0018731
99US-0020205
99US-002054465

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10-MAR-2000;

11-MAR-2000;

21-MAR-2000;

13-MAY-2000;

13-MAY-2000;

22-MAY-2000;

02-UUN-2000;

24-AUG-2000;

24-AUG-2000;

24-AUG-2000;

20-DEC-2000;

20-DEC-2000;

20-DEC-2000;

21-MAY-2001;

22-MAY-2001;

23-UUN-2001;

20-UUN-2001;

20-UUN-2001;

20-UUN-2001;

20-UUN-2001;

20-UUN-2001;

20-UUN-2001;
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2000WO-US006319,
2000WO-US007532
2000WO-US013705,
2000WO-US014042
2000WO-US014941,
2000WO-US015264,
2000WO-US015264,
2000WO-US023728,
2000WO-US023728,
2000WO-US0332678,
2000WO-US034956,
2001WO-US034956,
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2001WO-US021066.
2001WO-US021735.
2001US-00918585.
                                                                                                                                                                                                                                                                                                                       Gerritsen ME;
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Goddard Kljavin Stewart ÄTAN Filvaroff E, Godowski PJ, Kuo SS, Nami KP, Botstein D, Desnoyers L, Eaton DL f E, Fong S, Gao W, Gerber H, Gerrits PJ, Grimaldi JC, Gurney AL, Hillan KJ Napier MA, Pan J, Paoni NF, Roy MA, Williams PM, Wood WI; Shelton

## WPI; 2004-021078/02.

inflammation, organ infertility, birth d syndrome, or cancer. Example 114; SEQ secreted and transmembrane nucleic acid useful for treating lammation, organ failure, atherosclerosis, cardiac injury, ertility, birth defects, premature aging, acquired immunodef ID NO 564; 463pp; English. injury, immunodeficiency

CC transmembrane protein) having at least 80% amino acid sequence as given con a maino acid sequence chosen from 94 fully defined sequence as given con a maino acid sequence chosen from 94 fully defined sequence as given con the specification (including PRO lacking its associated signal competide). Also included are nucleic acids encoding the proposed peptide). Also included are nucleic acids encoding the pro proteins comprising the vector and producing PRO, a chimaeric molecule comprising comprising the vector and producing PRO, a chimaeric molecule comprising the vector and producing PRO, a chimaeric molecule comprising comprising the vector and producing PRO, a chimaeric molecule comprising comprising the vector and producing PRO, a chimaeric molecule comprising comprising the vector and producing PRO, a chimaeric molecule comprising complexide is useful for detecting a pRO4993 polypeptide is useful for detecting pRO4993 polypeptide is useful for detecting produced polypeptide. PRO730 polypeptide is useful for detecting profits polypeptide. PRO730 profits pro

-0081071P.

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RESULT 378
ADF27349/C
ID 70749/C

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Best Local S
Matches 17
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30-MAR-1998;
30-MAR-1998;
31-MAR-1998;
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27-MAR-19
27-MAR-19
 31-MAR-
01-APR-
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01-APR-
08-APR-
08-APR-
08-APR-
09-APR-
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-1998;
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plogical; antiarthritic; osteopathic; antirheumatic; vulnerary;
tumour growth; retinal disorder; sports-related joint problem.
cartilage defects; osteoarthritis; rheumatoid arthritis;
ling; hearing loss; probe; in situ hybridiasria-
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   98US-
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                                                 3-0080333P.
3-0080334P.
3-0081049P.
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3-0080327P.
3-0080328P.
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-0080107P.
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3-0079663P.
3-0079664P.
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Pred. No. 3
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tumour cell lines.
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14-MAY-1999;
11-MAY-1999;
22-UNN-1999;
23-UNN-1999;
26-UIL-1999;
26-UIL-1999;
26-UIL-1999;
26-UIL-1999;
27-UIL-1999;
28-UIL-1999;
30-DEC-1999;
30-MAN-2000;
21-MAR-2000;
21-MAR-2000;
21-MAR-2000;
21-MAY-2000;
30-MAY-2000;
30-MAY-2000;
22-MAY-2000;
23-MAY-2000;
24-AUG-2000;
25-MAY-2001;
25-MAY-2001;
25-MAY-2001;
26-UIN-2001;
27-MAY-2001;
29-UIN-2001;
29-UIN-2001;
29-UIN-2001;
29-UIN-2001;
29-UIN-2001;
29-UIN-2001;
29-UIN-2001;
30-UIL-2001;
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Ferrara N,
Goddard A,
Kljavin IJ,
Stewart TA,
The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide in a sample suspected of containing PRO4993 polypeptide.
                                                                                                                                                                                                                        Novel PRO polypeptides useful for treating diabetes, kidney disorders (Berger disease, celiac disease), pericyte-associated tumors, anemia, arthritis, cardiac insufficiency disorders, treating peripheral neuropathy.
                                                                                                                                                                                            Example 114; SEQ
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99WO-US012752
99US-01426807P.
99US-01426807P.
99US-0145698P.
99US-0162506P.
99US-0162506P.
99WO-US028551.
99WO-US028551.
99WO-US031274.
2000WO-US031274.
2000WO-US000377.
2000WO-US000377.
2000WO-US000376.
2000WO-US000376.
2000WO-US000316.
2000WO-US000316.
2000WO-US000316.
2000WO-US005341.
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2000WO-US005341.
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2000WO-US005341.
2000WO-US013705.
2000WO-US013705.
2000WO-US013705.
2001WO-US015264.
                                                                                                                                                                                            ID NO
                                                                                                                                                                                          564;
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                                                                                                                                                                                                                                                                                                                                                  L, Eaton DL;
H, Gerritsen ME;
Hillan KJ;
Roy MA, Shelto
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Query Match Best Local Similarity

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Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
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98US-0086392P; 98US-008641AP; 98US-008641AP; 98US-008709B; 98US-008709B; 98US-0091010P; 98US-0091010P; 98US-0091010P; 98US-0091153P; 98US-010934651P; 98US-010934651P; 98US-0113621P; 98US-0113621P; 98US-0113621P; 98US-0113621P; 99US-0113621P; 99US-011362P; 99US-01314297; 99US-01314287; 99US-01314287; 99US-01314287; 99US-0145680P; 99US-01459887;	866 886 886 886 886 886 886 886 886 886

hybridisation.

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RESULT 382
ADF25624/c
ID ADF256
XX
ADF256
XC
ADF256
XC
DT 12-FEB
XX
DE Human
XX
Human;
KW Human;
KW auditc
KW auditc
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Best Local S
Matches 17
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Ferrara N,
Goddard A,
Kljavin IJ,
Stewart TA,
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11-MAR-2000
21-MAR-2000
21-MAR-2000
30-MAR-2000
22-MAY-2000
30-MAY-2000
30-MAY-2000
24-MUL-2000
24-AUG-2000
24-AUG-2000
24-AUG-2000
24-AUG-2000
25-MAY-2000
20-DEC-2000
21-DEC-2000
21-DEC-2000
22-MAR-2001
22-MAR-2001
22-MAR-2001
22-MAY-2001
21-UN-2001
20-UN-2001
20-UN-2001
                                                                                                                                                                                                                                                                                                 The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody, PRO337 polypeptide is useful for detecting a PRO493 polypeptide is useful for detecting a PRO493 polypeptide is useful for detecting PRO493 polypeptide.
Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sportes-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel PRO polypeptides useful for treating peripheral neuropathy, neuropathies associated with systemic disease such as post-polio syndrome or AIDS-associated syndrome.
                                                                                       12-FEB-2004
                                                                                                                  ADF25624;
                                                                                                                                         ADF25624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 114; SEQ ID NO 564; 465pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2004-021571/02.
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                                                                                                                                                                                                                               395
                                                                PRO
                                                                                                                                                                                                        20
                                                                                                                                                                                                                                                      ch 1.1%;
1 Similarity 85.0%;
17; Conservative
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N, Filvaroff E,
A, Godowski PJ,
IJ, Kuo SS, Nap
TA, Tumas D, Wi
                                                                                                                                         standard; DNA;
                                                                                                                                                                                                                           GGCCGAAGGCCCGCAGGGTC
                                                                                                                                                                                                        GGCCGGAGGCCTTCAGGGTC 1
                                                                362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000WO-US005841.
2000WO-US0075319.
2000WO-US008439.
2000WO-US014041.
2000WO-US014941.
2000WO-US023128.
2000WO-US023128.
2000WO-US023128.
2000WO-US032678.
2000WO-US034956.
2001WO-US034956.
2001WO-US034956.
2001WO-US034956.
2001WO-US034956.
2001WO-US0317092.
2001WO-US017092.
2001WO-US017092.
2001WO-US017092.
2001WO-US017092.
2001WO-US017093.
2001WO-US017093.
                                                                                       (first entry)
                                                             Taqman PCR probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       KP, Botstein D, Desnoyers L, Eaton DL;
f E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt
, Williams PM, Wood WI;
                                                                                                                                         21
                                                                                                                                                                                                                                                        0,
                                                                                                                                                                                                                                                                   Score 15.2; DB 1
Pred. No. 3.4e+02
                                                                                                                                                                                                                               414
                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                DB 1;
                                                                                                                                                                                                                                                                              Length 21;
                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                        0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Shelton
                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                        0,
  10-MAR-1999
112-MAR-1999
12-MAR-1999
114-MAY-1999
114-MAY-1999
114-MAY-1999
114-MAY-1999
125-AUG-1999
125-AUG-1999
125-AUG-1999
126-DEC-1999
127-MAR-2000
127-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17-MAR-1998;
26-JUN-1998;
07-OCT-1998;
07-OCT-1998;
06-NOV-1998;
06-NOV-1998;
20-NOV-1998;
20-NOV-1998;
20-DEC-1998;
22-DEC-1998;
22-DEC-1998;
22-DEC-1998;
05-JAN-1999;
05-MAR-1999;
10-MAR-1999;
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 2000US-00709238
2000US-00723749
2000US-00723749
2000US-00747259
2000US-00747259
2001US-00816744
2001US-00816744
2001US-00816920
2001US-00854208
2001US-00854208
2001US-00854208
2001US-00872035
2001US-00872035
2001US-00874536
2001US-00874536
2001US-00874536
2001US-00874536
2001US-00874536
2001US-00874536
2001US-00874536
                                                                                                                                                                                                                                          99US-00284291
99US-00311832
99US-00310137
99WC-US012752
99WC-US028313
99WC-US028313
99WC-US028313
99WC-US031274
99WC-US031274
99WC-US031274
2000WC-US000277
2000WC-US000376
2000WC-US000376
2000WC-US005044
2000WC-US0050444
2000WC-US014444
2000WC-US014444
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98US-00187368.
98WO-US024855.
98US-00202054.
98US-00218517.
99WO-US000106.
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S066
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        98WO-US021141
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3-00267213
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-US005028
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cytostatic;

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RESULT 383
ADF26725/c
ID ADF267
XX
                                                                                                                                                                                                                                           Ct transmembrane protein) having at least to by amino acid sequence identity
Ct can amino acid sequence chosen from 94 fully defined sequences as given
Ct in the specification (including PRO lacking its associated signal
Ct peptide). Also included are nucleic acids enquences as given
Ct peptide, a PRO extracellular domain with or without its associated signal
Ct peptide). Also included are nucleic acids encoding the PRO proteins
Ct mentioned above, a vector comprising a PRO nucleic acid), a host cell
Ct comprising the vector and producing PRO, a chimaeric molecule comprising
Ct proteins

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Best Local
                                                                                                                                                        Matches
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Goddard
Kljavin
Stewart
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New nucleic acid encoded a secreted and transmembrane polypeptide, to for treating e.g. lung or breast tumors, osteoarthritis, rheumatoid arthritis, obesity, diabetes, hyperinsulinemia, hypoinsulinemia or
                 ADF26725
                                                                                                                                                                                                                     Sequence
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30-JUL-2001; 2001US-00918585.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       invention relates to an isolated PRO polypeptide (secreted namembrane protein) having at least 80% amino acid sequence
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                                                                                                                           395
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17; Conserv
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                 standard;
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, Filvaroff E,
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Kuo SS, Na,
Tumas D, W
                                                                                                                                                                                                                      BP;
                                                                                                                                                       1.1%;
llarity 85.0%;
Conservative
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                 DNA;
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E., Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt
, Williams PM, Wood WI;
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                                                                                                                                                                       Score 15.2;
Pred. No. 3
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                                                                                                                                                                                      DB 1; Length
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                                                                                                                                                          Gaps
                                                                                                                                                          0
    31-MAR-1998
01-APR-1998
01-APR-1998
01-APR-1998
08-APR-1998
08-APR-1998
09-APR-1998
09-APR-1998
15-APR-1998
15-APR-1998
15-APR-1998
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15-APR-1998
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23-APR-1998
23-APR-1998
29-APR-1998
29-APR-1998
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20-MAR-1998;
20-MAR-1998;
20-MAR-1998;
25-MAR-1998;
26-MAR-1998;
27-MAR-1998;
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31-MAR-1998;
31-MAR-1998;
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27-MAR-1998;
30-MAR-1998;
30-MAR-1998;
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13-NOV-1997;
21-NOV-1997;
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11-MAR-1998;
11-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; ss; PCR; secreted protein; transmembrane protein; PRO; cyto ophthalmological; antiarthritic; osteopathic; antirheumatic; vulne auditory; tumour growth; retinal disorder; sports-related joint practicular cartilage defects; osteoarthritis; rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      27-MAR-1998;
27-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               12-MAR-1998;
13-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2001US-00978802
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
98US-0077641P

98US-0077641P

98US-0077804P

98US-0078910P

98US-0079939P

98US-0079294P

98US-0079664P

98US-00797689P

98US-00797689P

98US-0079789

98US-0079789

98US-0080107P

98US-0080107P

98US-0080107P

98US-0080107P

98US-0080107P

98US-00801195P

98US-0081195P

98US-0081333P

98US-0082704P

98US-0082704P

98US-0082704P

98US-0082332P

98US-0083335P

98US-0083335P

98US-0083335P

98US-0083392P

98US-0083392P
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RESULT 384
ADF34514/c
ID ADF345
XX
AC ADF345
XX
DT 12-FEB
XX
DT 12-FEB
XX
KW Human;
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Best Local S
Matches 17
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Ferrara N, F.
Inddard A, Goo.
Ivin IJ, Kuc
Int TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11 FEB-2000;
18 - FEB-2000;
24 - FEB-2000;
10 - MAR-2000;
11 - MAR-2000;
21 - MAR-2000;
21 - MAR-2000;
31 - MAY-2000;
32 - JUL-2000;
34 - AUG-2000;
35 - JUL-2001;
36 - FEB-2001;
37 - MAR-2001;
38 - FEB-2001;
39 - JUL-2001;
30 - JUL-2001;
30 - JUL-2001;
30 - JUL-2001;
                                                                                                                                                                                                                                                                                     The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide is useful for detecting PRO493 polypeptide. Similarly, PRO4993 polypeptide is useful for detecting PRO493 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New PRO polypeptides PRO200, PRO322, PRO540, PRO846 and PRO617 that enhance the survival/proliferation of rod photoreceptor cells, useful treating retinal disorders or injuries e.g., sight loss in mammals.
                                                                                 ADF34514;
                                                                                                            ADF34514 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 114; SEQ ID NO 564; 464pp; English.
                                                      12-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2004-041393/04.
                                                                                                                                                                                               395 GGCCGAAGGCCCGCAGGGTC 414
                            PRO
                                                                                                                                                                                20 GGCCGGAGGCCTTCAGGGTC 1
                                                                                                                                                                                                                                                  Similarity
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N, Filvaroff E,
A, Godowski PJ,
IJ, Kuo SS, Napi
TA, Tumas D, Wil
                           362 Taqman PCR probe.
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2000WO-US023328.
2000WO-US032678.
2000WO-US034956.
2001WO-US006520.
2001WO-US017952.
2001WO-US017960.
2001WO-US017800.
2001WO-US017800.
2001WO-US017866.
2001WO-US021735.
2001US-00918585.
                                                                                                                                                                                                                                     1.1%;
ilarity 85.0%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000WO-US003565.

2000WO-US005004341.

2000WO-US0050041.

2000WO-US005319.

2000WO-US00753.

2000WO-US00753.

2000WO-US013705.

2000WO-US014041.

2000WO-US014041.
                                                    (first
 secreted protein; transmembrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INC.
                                                                                                            DNA;
                                                      entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KP, Botstein D, Desnoyers L, Eaton DL;
E. Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt,
Williams PM, Wood WI;
                                                                                                              21
                                                                                                              ВP
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                                                                                                                                                                                                                                                  Score 15.2;
Pred. No. 3
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                                                                                                                                                                                                                                                  DB 1;
 protein;
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  PRO;
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  cytostatic;
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29-APR-1998;
29-APR-1998;
29-APR-1998;
29-APR-1998;
29-APR-1998;
30-APR-1998;
31-MAY-1998;
31-MAY-1999;
31-APR-1999;
31-AP

98US-0083496 98US-0083596 98US-0083596 98US-00835546 98US-00835546 98US-00835546 98US-00844149 98US-008444149 98US-0084598 98US-0084598 98US-00845989 98US-00846379 98US-00846379 98US-00855809 98US-00855809 98US-00855809 98US-00855999 98US-00855999 98US-008533389 98US-00857049 98US-00857049 98US-00857049 98US-00864869 98US-00863339 98US-00864809 98US-0086337049 98US-00864809 98US-00864809 98US-00864809 98US-00864809 98US-00864809 98US-00864809 98US-0133239 99US-01342879 99US-01342879 99US-01342879 99US-013428979 99US-013428979 99US-01456989 99US-01456989 99WO-US00305134 99WO-US0031244 199WO-US0031243 99WO-US0031243 99WO-US0031243 99WO-US0031243 99WO-US0031243

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The invention relates to an isolated PRO polypeptide (secreted or C transmembrane protein) having at least 80% amino acid sequence identity con a maino acid sequence chosen from 94 fully defined sequence identity con the specification (including PRO lacking its associated signal copetide, a PRO extracellular domain with or without its associated signal copetide). Also included are nucleic acids encoding the PRO proteins comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising CC pRO fused to a heterologous amino acid sequence, and an anti-PRO cantibody. PRO337 polypeptide is useful for detecting a PRO9393 polypeptide. Similarly, PRO4933 polypeptide is useful for detecting PRO337 CC Similarly, PRO4933 polypeptide is useful for detecting PRO337 CC Similarly, PRO4933 polypeptide is useful for detecting PRO337 CC polypeptide, PRO700 or PRO739. PRO700 or PRO739 polypeptide is useful for detecting PRO337 CC polypeptide, PRO700 or PRO739. PRO4933 polypeptide is useful for inking a bloactive molecule to a cell expressing PRO337 polypeptide. The bloactive molecule to a cell expressing PRO337 polypeptide. The bloactive molecule to a cell expressing PRO4933 polypeptide. The bloactive molecule is the toxin, radiolabel, or an antibody. The bloactive molecule co a cell expressing PRO4933 polypeptide; PRO725, PRO700 or PRO739 polypeptide are useful for linking a bloactive molecule to a cell expressing PRO337 polypeptide; and PRO1559 polypeptide; PRO725, CC pero700 or PRO739 polypeptide professions PRO4933 polypeptide is useful for modulating the biological activity of the cell expressing PRO337 polypeptide; where the cell is killed. PRO337 polypeptide is useful for modulating the professions PRO725, PRO700 or PRO739 polypeptide or an anti-PRO359 polypeptide; PRO725, CC PRO700 or PRO739 polypeptide or an anti-PRO359 polypeptide; pro725, PRO700 or anti-PRO739 polypeptide; pro725, PRO700 or PRO739 polypeptide; pro725, PRO700 or PRO739 polypeptide; professing PRO337 poly
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Kljavin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 114; SEQ ID NO 564; 461pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    hybridization probe or as a therapeutic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New secreted and transmembrane PRO nucleic acid, for use in gene therapy, as a molecular weight marker for protein electrophoresis, as a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18-FEB-2000;
30-JUL-2001;
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2001US-00918585.
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E, Fong S, Gao W, Gerber H, Gerri

PJ, Grimaldi JC, Gurney AL, Hillan

Napler MA, Pan J, Paoni NF, Roy MA

, Williams PM, Wood WI;
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Gerritsen ME;
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Query Match

1.1%;

Score 15.2;

DB 1; Length 21;

Sequence

21

BP; 3

A; 9 C; 6 G; 3 T; 0 U; 0 Other;

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RESULT 385
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                                                                              01-APR-1998;
01-APR-1998;
01-APR-1998;
08-APR-1998;
15-APR-
15-APR-
15-APR-
15-APR-
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                                                     08-APR-1998;
09-APR-1998;
                                                                                                                   31-MAR-1998;
01-APR-1998;
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27-MAR-1998;
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27-MAR-1998;
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26-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                        24-OCT-2001; 2001US-00999829
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                                                                                                                                      31-MAR-1998;
                                                                                                                                               31-MAR-1998;
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13-MAR-1998;
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                         98US-0080333P
98US-0080334P
98US-0081070P
98US-0081071P
98US-0081171P
98US-0081295
98US-0081229P
98US-0081817P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Taqman PCR probe.
                                                                                                                                    98US-0080105P.
98US-0080107P.
98US-0080165P.
                                                                                                                   SU86
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98US-0079923P.
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98US-0079656P
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S-0080194P.
S-0080327P.
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vulnerary;
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Best Local :
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28-JUL-1999;
29-OCT-1999;
30-NOV-1999;
30-DEC-1999;
30-DEC-1900;
11-FEB-2000;
11-FEB-2000;
11-FEB-2000;
11-FEB-2000;
24-FEB-2000;
31-MAR-2000;
31-MAR-2000;
31-MAR-2000;
31-MAR-2000;
32-MAY-2000;
32-MAY-2000;
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32-MAY-2000;
31-MAY-2000;
32-MAY-2000;
31-MAY-2000;
32-MAY-2001;
32-MAY-2001;
32-JUN-2001;
32-JUN-2001;
32-JUN-2001;
32-JUN-2001;
31-JUN-2001;
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Ferrara N,
Goddard A,
Kljavin IJ,
Stewart TA,
                                                                                                                                                                                   The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody, PRO337 polypeptide is useful for detecting a PRO4993 polypeptide in a sample suspected of containing PRO4993 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New nucleic acid encoding a secreted and transmembrane polypeptide, useful for treating e.g. lung or breast tumors, osteoarthritis, rheumatoid arthritis, obesity, diabetes, hyperinsulinemia, hypoinsulinemia or wounds.
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395 GGCCGAAGGCCCGCAGGGTC
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20 GGCCGGAGGCCTTCAGGGTC
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                                                                                                                         Similarity
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N, Filvaroff E,
A, Godowski PJ,
IJ, Kuo SS, Napi
TA, Tumas D, Wil
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99US-0146222P
99US-0162506P
99WC-US028551
99WC-US028555
99WC-US031243
99WC-US031243
99WC-US031243
99WC-US031274
2000WC-US000277
2000WC-US0003565
2000WC-US0003441
2000WC-US0050441
2000WC-US0050441
2000WC-US0050441
2000WC-US0050441
2000WC-US00753
2000WC-US014941
2000WC-US01
                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NO 564; 460pp;
                                                                                                                    1.1%;
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f E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt, Williams PM, Wood WI;
                                                                                             0;
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Pred.
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                                                                                                Mismatches
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No. 3.
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98US-008155P 98US-008256PP 98US-0082700PP 98US-0082770PP 98US-0082797PP 98US-0083336PP 98US-00833495PP 98US-0083495PP 98US-0083495PP 98US-0083558PP 98US-0084602PP 98US-0084637PP 98US-0084637PP 98US-0084637PP 98US-0084637PP 98US-0084637PP 98US-0084637PP 98US-0084637PP 98US-0085333PP 98US-0085333PP 98US-0085333PP 98US-0085333PP 98US-0085333PP 98US-0085333PP 98US-0085333PP 98US-0085333PP 98US-0085720PP 98US-0085720PP 98US-008573PP 98US-008573PP 98US-008573PP 98US-008573PP 98US-008573PP 98US-008573PP 98US-008573PP 98US-008573PP 98US-008573PP 98US-001332PP 98US-001332PP 98US-001332PP 98US-001332PP 98US-001332PP 98US-001332PP 98US-001332PP 98US-001332PP 98US-013322PP 98US-0133232PP 98US-0133232PP 98US-0133232PP 99US-0133232PP 99

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The invention relates to an isolated PRO polypeptide (secreted or CC transmembrane protein) having at least 80% amino acid sequence identity con an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal copptide). Also included are nucleic acids encoding the PRO proteins comprising the vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO conjugatide in a sample suspected of containing PRO4993 polypeptide. Similarly, PRO4993 polypeptide is useful for detecting PRO4993 polypeptide is useful for detecting PRO4993 polypeptide, and PRO1559 polypeptide is useful for detecting PRO725, PRO700 or PRO739 polypeptide is useful for inking a CC placetive molecule to a cell expressing PRO337 polypeptide is useful for linking a CC molecule is the toxin, radiolabel, or an antibody. The bioactive molecule to a cell expressing PRO337 polypeptide is useful for linking a CC pRO700 or PRO739 polypeptide is useful for linking a CC pRO700 or PRO739 polypeptide is useful for linking a CC pRO700 or PRO739 polypeptide is useful for linking a CC pRO700 or PRO739 polypeptide is useful for linking a CC pRO700 or PRO739 polypeptide is useful for linking a CC pRO700 or PRO739 polypeptide is useful for linking a Dioactive molecule to a cell expressing PRO337 polypeptide; and PRO1559 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO355 polypeptide; and PRO1559 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO355 polypeptide; and PRO1559 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO725, pro700 or PRO739 polypeptide. PRO725, pro700 or PRO739 polypeptide. PRO725, prof000 or PRO739 polypepti
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ADG50737/c
ID ADG50737 standard; DNA;
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18-FEB-2000;
30-JUL-2001;
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Goddard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New genes and encoded secreted and transmembrane polypeptides, useful for treating e.g. lung or breast tumors, osteoarthritis, rheumatoid arthritis, obesity, diabetes, hyperinsulinemia, hypoinsulinemia or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sportes-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
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08-MAR-1999;
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N, Filvaroff E,
A, Godowski PJ,
IJ, Kuo SS, Nap.
TA, Tumas D, Wi
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99US-00380138.
2000WO-US004341.
2001US-00918585.
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98US-0094651P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KP, Botstein D, Desnoyers L, Eaton DL;
f E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt
, Williams PM, Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PCR probe.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        564; 463pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             vulnerary;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Shelton DL;
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RESULT 387
ADG50113/c
ID ADG501
XX
ADG501
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Best Local
10-MAR-1999
12-MAR-1999
14-MAY-1999
25-AUG-1999
30-NOV-1999
02-DEC-1999
02-DEC-1999
16-DEC-1999
16-DEC-1999
30-DEC-1999
30-DEC-1999
16-JAN-2000
06-JAN-2000
16-FEB-2000
11-FEB-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       the cell expressing PRO337 polypeptide, where the cell is killed. PRO337 polypeptide or anti-PRO4933 polypeptide is useful for modulating the biological activity of the cell expressing PRO4933 polypeptide; PRO725, PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for modulating the biological activity of the cell expressing PRO3559 polypeptide or anti-PRO725, anti-PRO700 or anti-PRO739 polypeptide is useful for modulating the biological activity of the cell expressing PRO700 or anti-PRO739 polypeptide is useful for modulating the biological activity of the cell expressing PRO725, PRO700 or PRO739 polypeptide. The polypeptide are useful for inhibiting tumour growth, retinal disorders, sports-related joint problems, articular cartilage defects, osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in mammals. The present sequence is a Tagman PCR probe used investigate PRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytolophthalmological; antiarthritic; osteopathic; antirheumatic; vulne: auditory; tumour growth; retinal disorder; sports-related joint prarticular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      05-JAN-1999;
08-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human PRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20-NOV-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    07-OCT-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25-OCT-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-NOV-2003.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGCCGAAGGCCCGCAGGGTC 414
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                       ; 2000WO-US000219
2000WO-US000277
2000WO-US000376
2000WO-US003565
; 2000WO-US004341
2000WO-US005841
2000WO-US005841
2000WO-US006319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      B₽;
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                                                                                                                                                                                                                          99US-00380138.
99WO-US028313.
99WO-US028551.
99WO-US028565.
99WO-US030095.
99WO-US031243.
99WO-US031274.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Taqman PCR probe
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                                                                                                                                                                                                                                                                                                                                                                                                           99WO-US012252
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99WO-US010733.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8WO-US024855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        entry)
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85.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9 C; 6 G; 3 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21
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Pred. No. 3
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17-MAY-2000;
17-MAY-2000;
22-MAY-2000;
30-MAY-2000;
02-JUN-2000;
02-JUN-2000;
04-AUG-2000;
01-DEC-2000;
02-DEC-2000;
02-DEC-2000;
02-DEC-2000;
02-DEC-2001;
02-MAY-2001;
01-JUN-2001;
01-JUN-2001;
09-JUN-2001;
                                                                                                                                                                                                                                                                       (GETH )
                                                                                                                                                                                                                                                                       GENENTECH INC.
                                                                                                                                                                                                                                                                                2000WO-US008439.
2000WO-US014042.
2000WO-US014941.
2000WO-US02071.
2000WO-US023328.
2000WO-US03328.
2000WO-US0332678.
2000WO-US034956.
2001WO-US034956.
2001WO-US0317092.
2001WO-US017092.
2001WO-US017092.
2001WO-US017092.
2001WO-US017092.
2001WO-US017092.
2001WO-US017092.
2001WO-US017066.
2001WO-US017066.
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Ferrara Goddard Kljavin Stewart ÄÜ'A' i AJ, Baker KP, N, Filvaroff E, A, Godowski PJ, IJ, Kuo SS, Nap. TA, Tumas D, Wi KP, Botstein D, Des EE, Fong S, Gao W, EU, Grimaldi JC, Gu Napier MA, Pan J, Williams PM, Wood Wood WI; Desnoyers L, Eaton DI W, Gerber H, Gerrits Gurney AL, Hillan KJ J, Paoni NF, Roy MA, Eaton DL; Gerritsen ME; ፭ Shelton DL;

### 2004-080683/08

New PRO nucleic acid, useful for manufacturing a medicament diagnosing or treating tumor or for tissue typing.

# 114; SEQ ID NO 564; 454pp; English

CC transmembrane protein) having at least 80% amino acid sequence incoments of the invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity comen amino acid sequence sas given from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide). Also included are nucleic acids encoding the proteins comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising comprising a PRO nucleic acid), a host cell comprising a propertide in a sample suspected of detecting a PRO493 polypeptide in a sample suspected of detecting a PRO493 polypeptide. Similarly, PRO493 polypeptide is useful for detecting PRO790 peptide in useful for detecting comprising complexity. PRO700 or PRO739 polypeptide is useful for detecting pro725, PRO700 or PRO739 polypeptide is useful for detecting pro725, PRO700 or PRO739 pro1993 polypeptide is useful for detecting complexity molecule to a cell expressing PRO337 polypeptide. The bioactive molecule to a cell expressing PRO493 polypeptide; PRO705, PRO700 or PRO739 polypeptide. PRO337 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO493 polypeptide; PRO725, CC polypeptide is useful for linking a bioactive molecule to a cell expressing PRO259 polypeptide or anti-PRO37 polypeptide. PRO337 polypeptide is useful for molecule to a cell expressing PRO725, CC polypeptide is useful for modulating at least one biological activity of the cell expressing PRO337 polypeptide is useful for modulating the pro159 polypeptide; PRO725, CC pro700 or PRO739 polypeptide; PRO337 polypeptide is useful for modulating the cell expressing PRO725, CC pro700 or PRO739 polypeptide; PRO725, CC pro700 or PRO39 polypeptide; PRO725, CC pro700 or PRO39 polypeptide; PRO337 polypeptide; PRO725, CC pro700 or PRO39 polypeptide; PRO3037 polypeptide; PRO3037 polypeptide; PRO3037 polypeptide; PRO3037 polypeptide; PRO3037 polypeptide; als. The present sequence is a Tagman amplification in certain tumour cell PCR pr lines. probe

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Other
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RESULT 388
ADG51985/c
ID ADG519
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ADG5199
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ADG6-MAY
ADG719
ADG71
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ADG719
ADG71
ADG719
ADG71
ADG719

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Best Local S
Matches 17
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25-AUG-1999;
30-NOV-1999;
18-FEB-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               88;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENENTECH INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               362 Taqman PCR probe.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; 99WO-US005028.
; 99US-00380138.
; 99WO-US028313.
; 2000WO-US004341.
; 2001US-00918585.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        98US-008441P
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Pred. No. 3
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Ferrara Goddard Kljavin Stewart Ashkenazi Äï'n Ą AJ, Baker KP, Filvaroff E, Godowski PJ, Kuo SS, Nap Tumas D, Napier MA, Pa Williams PM, Botstein D, Desnoyers L, Fong S, Gao W, Gerber H, Grimaldi JC, Gurney AL, I er MA, Pan J, Paoni NF, Paoni NF, Hillan KJ; Roy MA, Eaton Shelton

## WPI; 2004-021841/02.

New PRO nucleic acid, udiagnosing or treating acid, useful reating tumor for c manufacturing a l a medicament

### Example 114; SEQ ID ğ 564; 453pp; English.

The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide). Also included are nucleic acids encoding the proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide. Similarly, PRO4993 polypeptide is useful for detecting PRO337 polypeptide. Similarly, PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO337 polypeptide, and PRO493 polypeptide is useful for detecting PRO359 polypeptide, and PRO493 polypeptide is useful for detecting PRO725, PRO700 or PRO739. PRO493 polypeptide is useful for detecting PRO725, PRO700 or PRO739. PRO493 polypeptide is useful for including a pro493 polypeptide. The bioactive molecule to a cell expressing PRO337 polypeptide.

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RESULT 389
ADG4948
ACC ADG494
XX ADG494
XX ADG494
XX Human
ACC Human
XX Human
XX Human
XX Human
XX Human
XX US2003
XX US2003
XX US2003
XX US2003
XX IS-NOV
X
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CC bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725, CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule couseful for linking a bioactive molecule to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is CC useful for linking a bioactive molecule to a cell expressing PRO725, CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337 CC polypeptide is useful for modulating at least one biological activity of the cell expressing PRO7325, CC pro700 or PRO739 polypeptide or an anti-PRO493 polypeptide; RRO337 CC polypeptide or anti-PRO493 polypeptide is useful for modulating the biological activity of the cell expressing PRO4993 polypeptide; RRO337 CC pro700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for modulating the biological activity of the cell expressing PRO4559 CC polypeptide; and PRO1559 polypeptide or anti-PRO735, anti-PRO700 or anti-PRO739 polypeptide is useful for modulating the biological activity of the cell expressing PRO4559 cc polypeptide are useful for inhibiting tumour growth, retinal disorders, construction or rheumatoid arthritis, wound healing and hearing loss in cc polypeptide activity of the cell expressing PRO725.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 17
  18-NOV-1997
21-NOV-1997
10-WAR-1998
11-MAR-1998
11-MAR-1998
11-MAR-1998
11-MAR-1998
12-MAR-1998
20-MAR-1998
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20-MAR-1998
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20-MAR-1998
20-MAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                                                                                                                                                17-OCT-1997;
13-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11-MAR-2004 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 21 BP; 3 A;
                                                                                                                                                                                                                                                                                                                                                                           25-OCT-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                 20-NOV-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                        US2003216305-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20
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17; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                           2001US-00013923
  97US-0065249P.
97US-006364P.
98US-0077450P.
98US-0077632P.
98US-0077641P.
98US-007791P.
98US-0078910P.
98US-0078936P.
98US-0079294P.
98US-007963P.
98US-0079663P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Taqman PCR probe.
                                                                                                                                                                                                                                                                                                                97US-0062250P.
97US-0065311P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1.1%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
      31-MAR-1998
31-MAR-1998
31-MAR-1998
01-APR-1998
01-APR-1998
08-APR-1998
09-APR-1998
15-APR-1998
15-APR-1998
15-APR-1998
22-APR-1998
22-APR-1998
22-APR-1998
22-APR-1998
22-APR-1998
22-APR-1998
22-APR-1998
22-APR-1998
22-APR-1998
23-APR-1998
24-APR-1998
25-APR-1998
27-APR-1998
29-APR-1998
29-APR
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27-MAR-1998;
27-MAR-1998;
30-MAR-1998;
30-MAR-1998;
31-MAR-1998;
  98US-0084639P

98US-0084643P

98US-0084643P

98US-0085333P

98US-0085573P

98US-0085573P

98US-0085579P

98US-0085580P

98US-0085697P

98US-0085697P

98US-0085697P

98US-0085700P

98US-0086332P

98US-0086430P

98US-0086430P

98US-0086430P
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98US-0082804P

98US-0082396P

98US-0083332P

98US-0083495P

98US-0083495P

98US-0083499P

98US-0083540P

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98US-0083554P

98US-008354P

98US-0083574P

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98US-0083574P

98US-008474P

98US-0084494P

98US-0084460P

98US-0084600P
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98US-008122P
98US-0081817P
98US-0081819P
98US-0081818P
98US-0081838P
98US-0081952P
98US-0082322P
98US-0082368P
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98US-0080334P.
98US-0081049P.
98US-0081070P.
98US-0081195P.
98US-0081203P.
98US-0081219P.
98US-00818129P.
98US-00818138P.
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98US-0082704P.
98US-0082797P.
98US-0082804P.
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98US-0079728P.
98US-0079786P.
98US-0079920P.
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S-0080165P.
S-0080194P.
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S-0079923P.
S-0080105P.
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.4e+02; DB 1;

Length Indels

21;

0

Gaps

0

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New secreted and transmembrane PRO polypeptide useful as a molecular weight marker and for treating arthritis, thalassemia, diabetes, or cardiac insufficiency disorders.
                                                                                                                                               2004-033145/03.
                                                                                                                                                                                                                                                                                                                                                                                   GENENTECH INC.
                                                                                                                                                                                               i AJ, Baker KP,
N, Filvaroff E,
A, Godowski PJ,
IJ, Kuo SS, Nap
TA, Tumas D, Wi
                                                                                                                                                                                                                                                                                                                                                                                                                                    99WO-US005028
99US-0123957P
99US-0131022P
99US-0131022P
99US-0131023P
99US-0131023P
99US-0131023P
99US-01310257P
99US-01402379
99US-01462229
99US-0146229P
99US-01462298
99US-0162506P
99US-0162506P
99US-0180028551
99WO-US028551
99WO-US031274
1000WO-US031274
1000WO-US031286
1000WO-US0312
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98US-0091359P
98US-0094651P
98US-0100038P
98WS-0109304P
98WS-0109304P
98WS-0113296
98US-0113296
98US-0113296
98US-0113621P
                                                                                                                                                                                                  KP, Botstein D, Desnoyers L, Eaton DL;
E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt
Williams PM, Wood WI;
                                                                                                                                                                                                                                       Shelton
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RESULT 390
ADG44865/c
ID ADG4488
XX ADG448
XX ADG4
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Best Local S
Matches 17
17-OCT-1997
13-NOV-1997
13-NOV-1997
10-NAR-1998
11-NAR-1998
11-NAR-1998
11-NAR-1998
11-NAR-1998
12-NAR-1998
12-NAR-1998
20-NAR-1998
20-NAR-1998
20-NAR-1998
20-NAR-1998
27-NAR-1998
27-NAR-1998
27-NAR-1998
27-NAR-1998
27-NAR-1998
31-NAR-1998
31-NAR-1998
31-NAR-1998
31-NAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
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97US-0064249P

97US-006331P

97US-006336P

98US-0077641P

98US-0077649P

98US-0077791P

98US-0077991P

98US-0078936P

98US-0079939P

98US-0079294P

98US-0079664P

98US-0079664P

98US-00797664P

98US-00797664P

98US-00797664P

98US-00797664P

98US-007977689P

98US-007977689P
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Pred. No. 3
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cytostatic;

26-JUN-1998
30-JUL-1998
30-JUL-1998
30-JUL-1998
20-NOV-1998
22-DEC-1998
23-DEC-1999
20-MAR-1999
21-MAR-1999
21-MAR-1999
21-MAR-1999
21-MAR-1999
21-MAR-1999
21-MAR-1999
22-JUN-1999
23-JUN-1999
24-MAY-1999
25-JUN-1999
26-JUL-1999
27-JUL-1999
28-JUL-1999
28-JUL-1999
29-CCT-1999
29-CCT-1999
29-CCT-1999
20-JUN-1999
20-JUN

Ashkenazi A: Ferrara N, Goddard A, Kljavin IJ, Stewart TA,

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22-DEC-1998
23-DEC-1998
05-JAN-1999
10-MAR-1999
11-MAR-1999
12-MAR-1999
22-MAR-1999
23-MAR-1999
24-APR-1999
26-APR-1999
12-JUN-1999
12-JUN-1999
12-JUN-1999
12-JUN-1999
13-DEC-1999
13-DEC
                                                                                                                                                                                                                                                                                                                     Ashkenazi AJ
Ferrara N,
Goddard A,
Kljavin IJ,
Stewart TA,
The invention relates to an isolated transmembrane protein) having at least to an amino acid sequence chosen from in the specification (including PRO l peptide, a PRO extracellular domain w
                                                                                                                                                                                 New PRO polypeptide useful for treating peripheral neuropathies associated with systemic disease such or acquired immunodeficiency syndrome-associated sy
                                                                                                                                                                                                                                                                                 WPI;
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                                                                                                                                      Example
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                                                                                                                                        114;
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, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;

, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;

J, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelt

A, Tumas D, Williams PM, Wood WI;
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99WC-US005190.
99WC-US005190.
99WC-US005190.
99US-0131445P.
99US-0131022P.
99US-01314287P.
99US-0142627P.
99US-0146225P.
99US-0146229P.
99US-014629P.
99US-0146229P.
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                                                                                                                                           ĕ
                                                                                                                                        564;
                                                                                                                                    454pp;
  ated PRO polypeptide (secreted or least 80% amino acid sequences as give from 94 fully defined sequences as give pRO lacking its associated signal with or without its associated signal
                                                                                                                                      English.
                                                                                                                                                                                 ral neuropathy,
uch as post-polio of
d syndrome.
                                                                                                                                                                                                                                                                                                                                                       Shelton
                                                                                                                                                                                                              syndrome
    signal
                                                given
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31-MAR 1998 01-APR 1998 01-APR 1998 01-APR 1998 00-APR 1998 00-APR 1998 15-APR 1998 15-APR 1998 15-APR 1998 15-APR 1998 15-APR 1998 22-APR 1998 23-APR 1998 23-APR

98US-0080165P 98US-008032PP 98US-0080334P 98US-0081071PP 98US-0081195P 98US-0081195P 98US-0081195P 98US-0081195P 98US-0081195P 98US-0081195P 98US-0081195P 98US-0081195P 98US-0081319P 98US-0081955PP 98US-0081955PP 98US-0082796PP 98US-0082796PP 98US-0082796PP 98US-0083392PP 98US-008349PP 98US-008345PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-00863339PP 98US-008463PP 98US-008463PP 98US-008463PP 98US-008643PP 98US-00863PP 98US-00863PP 98US-00863PP 98US-00863PP 98US-00863PP 98US-008704PP 98US-0087106PP 98US-009713PP 98US-009713PP

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Best Local S
Matches 17
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Ferrara N,
Goddard A,
Kljavin IJ,
Stewart TA,
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08-MAR-1999;
25-AUG-1999;
30-NOV-1999;
18-FEB-2000;
The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cel comprising the vector and producing PRO, a chimaeric molecule comprising the vector and producing PRO, a chimaeric molecule comprise PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide in a sample suspected of containing PRO4993 polypeptide. Similarly, PRO4993 polypeptide is useful for detecting PRO337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem articular cartilage defects; osteoarthritis; rheumatoid arthritis;
                                                                                                                                                         Example 114; SEQ
                                                                                                                                                                                                           in gene ther mapping, as
                                                                                                                                                                                                                                                                                                                                                                                                                                                    30-JUL-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18-OCT-2001; 2001US-00145093
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          08-JAN-2004.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US2004005312-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADG51361 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                    (GETH )
                                                                                                                                                                                                       secreted and transmembrane PRO polypeptides and nucleic acids, useful gene therapy for treating obesity or diabetes, in chromosome and gene ping, as chromosome markers, in tissue typing, and in identifying
                                                                                                                                                                                                                                                                              2004-081694/08.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              395 GGCCGAAGGCCCGCAGGGTC 414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRO 362 Tagman PCR probe.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BB; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                    GENENTECH INC.
                                                                                                                                                                                                                                                                                                           AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;

, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;

, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;

J, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelt

A, Tumas D, Williams PM, Wood WI;
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2000WO-US004341.
2001US-00918585.
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99WO-US005028.
99US-00380138.
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                                                                                                                                                       564; 462pp; English.
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Pred. No. 3.4e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             problem;
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15-APR-1998; 08-MAR-1999; 25-AUG-1999; 30-NOV-1999; 18-FEB-2000; 30-JUL-2001;

99US-00380138. 99WO-US028313. 2000WO-US004341. 2000US-00918585.

98US-0081952P. 99WO-US005028.

25-OCT-2001; 2001US-00013919.

08-JAN-2004.

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RESULT 392
ADG59305/c
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Best Local
                                                                                                                                                                                                                                                                 US2004005657-A1
                                                                                                                                                                                                                                                                                                                                                                    articular
                                                                                                                                                                                                                                                                                                                                                                                     auditory;
                                                                                                                                                                                                                                                                                                                                                                                                             ophthalmological;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADG59305 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADG59305;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         395 GGCCGAAGGCCCGCAGGGTC
                                                                                                                                                                                                                                                                                                                                             healing;
                                                                                                                                                                                                                                                                                                                                         lmological; antiarthritic; osteopathic; antirheumatic; vulnerary; lumological; antiarthritic; osteopathic; antirheumatic; vulnerary; rry; tumour growth; retinal disorder; sports-related joint problem; lar cartilage defects; osteoarthritis; rheumatoid arthritis; healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRO 362 Taqman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20 GGCCGGAGGCCTTCAGGGTC 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; 9 C; 6 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1.1%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    probe
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         414
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15.2;
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cytostatic;

problem;

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RESULT 393
ADG62761/c
ID ADG627
XX
AC ADG627
XX
AC ADG627
XX
DT 25-MAR
XX
                                                                                                                                                                                                                                                         CC transmembrane protein) having at least 80% amino acid sequence identity co an amino acid sequence chosen from 94 fully defined sequences as given co in the specification (including PRO lacking its associated signal peptide). Also included are nucleic acids encoding the RO proteins comprising the vector and producing PRO. a chimaeric molecule comprising comprising the vector and producing PRO, a chimaeric molecule comprising comprising the PRO proteins comprising the vector and producing PRO, a chimaeric molecule comprising CC pRO fused to a heterologous amino acid sequence, and an anti-PRO comprising the PRO proteins propertied. PRO731 polypeptide is useful for detecting a PRO4931 polypeptide. Similarly, PRO4931 polypeptide is useful for detecting PRO337 cC similarly, PRO4931 polypeptide is useful for detecting PRO337 cc similarly, PRO4931 polypeptide is useful for detecting PRO337 polypeptide. PRO700 or PRO739. PRO700 or PRO739 polypeptide is useful for detecting PRO337 polypeptide. The bioactive molecule to a cell expressing PRO337 polypeptide is useful for inking a bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive molecule is the toxin, radiolabel, or an antibody. The bioactive molecule comprised pro739 polypeptide are useful for inking a bioactive molecule are useful for inking a bioactive molecule con a cell expressing PRO337 polypeptide; PRO725, pro700 or PRO739 polypeptide professing PRO337 polypeptide is useful for inking a bioactive molecule con a cell expressing PRO337 polypeptide; pro725, pro700 or PRO739 polypeptide professing PRO493 polypeptide professing PRO337 polypeptide is useful for modulating the biological activity of the cell expressing PRO337 polypeptide is useful for modulating the professing PRO337 polypeptide is useful for modulating the professing PRO339 polypeptide professing PRO493 polypeptide professing PRO493 polypeptide; PRO725, pro700 or PRO739 polypeptide professing PRO493 polypeptide; PRO725, pro700 or pro739 polypeptide professing PRO493 polypeptide;
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Best Local S
Matches 17
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Ferrara N,
Goddard A,
Kljavin IJ,
Stewart TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New secreted and transmembrane PRO polypeptides and nucleic acid molecules, useful in gene thorapy, or for diagnosing and treating neoplastic cell growth and proliferation, diabetes or cardiac insufficiency disorders in mammals.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI;
               25-MAR-2004
                                                                ADG62761
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                                                                                                                                                                                   ch 1.1%;
l Similarity 85.0%;
17; Conservative
                                                                                                                                 GGCCGGAGGCCTTCAGGGTC 1
                                                                                                                                                   GGCCGAAGGCCCGCAGGGTC 414
                                                                standard;
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, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
J, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelt
A, Tumas D, Williams PM, Wood WI;
             (first entry)
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Pred. No. 3.4e+02
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                                                                                                                                                                                      Mismatches
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  29-APR-1998
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30-APR-1998
06-MAY-1998
07-MAY-1998
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07-MAY-1998
13-MAY-1998
13-MAY-1998
15-MAY-1998
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30-MAR-1998;
31-MAR-1998;
29-APR-1998;
29-APR-1998;
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20-MAR-1998;
25-MAR-1998;
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27-MAR-1998;
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27-MAR-1998;
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20-MAR-1998;
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13-MAR-1998;
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13-NOV-1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   healing; hearing
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98US-00797889
98US-0079728P
98US-0079728P
98US-0081929P
98US-0083495P
98US-0083499P
98US-0083554P
98US-0083554P
98US-0083559P
98US-0083742P
98US-0083742P
98US-0084627P
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98US-0077632P.
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S-0079664P.
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ק מיסים בסים מיסים מיס
         Ashkenazi A.
Ferrara N,
Goddard A,
Kljavin IJ,
Stewart TA,
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22-MAY-1998
22-MAY-1998
22-MAY-1998
28-MAY-1998
28-MAY-1998
26-JUN-1998
26-JUN-1998
26-JUN-1998
27-NCV-1998
27-NCV-1998
27-NCR-1999
28-MAR-1999
29-MAR-1999
29-MAR-1999
21-APR-1999
21-APR-1999
22-LUN-1999
23-JUN-1999
23-JUN
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         i AJ, Baker KP,
N, Filvaroff E,
A, Godowski PJ,
IJ, Kuo SS, Nap
TA, Tumas D, Wi
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2000WO-US000277
2000WO-US0003565
2000WO-US003565
2000WO-US005841
2000WO-US005841
2000WO-US006319
2000WO-US008319
2000WO-US00843
2000WO-US00849
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2001WO-US016520
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99US-0130232P
99US-01310232P
99US-0131445P
99US-01314287P
99US-01314287P
99US-01314287P
99US-0142887P
99US-0142680P
99US-0145698P
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98US-0091010P
98US-0091010P
98US-0091359P
98US-0100038P
98US-0100038P
98WO-US021141
98US-0109304P
98WO-US024855
98WO-US026P
98US-0113296P
98US-0113296P
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98US-0113296P
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99WO-US031274.
              Napier MA,
Williams
         Botstein D, Desnoyers L, Eaton DL;
Fong S, Gao W, Gerber H, Gerritsen ME;
Grimaldi JC, Gurney AL, Hillan KJ;
der MA, Pan J, Paoni NF, Roy MA, Shelt
lliams FM, Wood WI;
C MA,
                                       Shelton
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The invention relates to an isolated PRO polypeptide (secreted or curansmembrane protein) having at least 80% amino acid sequence identity con a maino acid sequence chosen from 94 fully defined sequences angiven con in the specification (including PRO lacking its associated signal peptide). Also included are nucleic acids encoding the PRO proteins comprising the vector and producing PRO, a chimaeric molecule comprising the vector and producing PRO, a chimaeric molecule comprising the vector and producing PRO, a chimaeric molecule comprising comprising the vector and producing PRO, a chimaeric molecule comprising comprising the vector and producing PRO, a chimaeric molecule comprising the vector and producing PRO, a chimaeric molecule comprising comprising the vector and producing PRO, a chimaeric molecule comprising produces and an anti-PRO comprising the vector and producing PRO, a chimaeric molecule comprising produced prod
Novel secreted and transmembrane PRO polypeptides useful for treating diabetes, kidney disorders (Berger disease, celiac disease), pericyteassociated tumors, arthritis and cardiac insufficiency disorders.
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Sequence 21 BP; 3 Þ 9 C; 6 G; 3 T; 0 U; 0 Other;

밁 8 Query Match Best Local S Matches 17 395 GGCCGAAGGCCCGCAGGGTC 414 Similarity GGCCGGAGGCCTTCAGGGTC 1 Conservative 1.1%; 0 Score 15.2; Pred. No. 3. Mismatches .4e+02; BB Length 21; Indels <u>,</u>

0

RESULT 394 ADM17563/c ADM17563 standard; (first 21 ЧB

Human

PRO

362 Taqman PCR probe.

TXXXXXXXXXXXXXX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostati ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation. cytostatic; problem;

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Ferrara
Goddard
Kljavin
Stewart
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08-MAR-1999;
25-AUG-1999;
29-OCT-1999;
02-DEC-1999;
18-FEB-2000;
30-JUL-2001;
                                                                                                                                                                                                                                                                 molecules, useful neoplastic cell grandinsufficiency disc
                                                                                                                                                                                                                                                                       New secreted and transmembrane PRO polypeptides and nucleic acid molecules, useful in gene therapy, or for diagnosing and treatin neoplastic cell growth and proliferation, diabetes or cardiac
                                                                                                                                                                                                                                                                                                                                                                                                                24-OCT-2001;
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N, Filvaroff I
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Kuo SS, Na
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99US-00380138.
99US-01625069.
99WO-US028551.
2000WO-US004341.
2001US-00918585.
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lvaroff E,
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The invention relates to an isolated PRO polypeptide (secreted or curansmembrane protein) having at least 80% anino acid sequence identity con an anino acid sequence chosen from 94 fully defined sequences as given con the specification (including PRO lacking its associated signal peptide). Also included are nucleic acids encoding the PRO proteins comprising a PRO nucleic acid, a host cell comprising the vector and producing PRO. a chimseric molecule comprising CC mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO. a chimseric molecule comprising CC professing the vector and producing PRO. a chimseric molecule comprising CC similarly, PRO337 polypeptide is useful for detecting a PRO493 polypeptide. Similarly, PRO493 polypeptide is useful for detecting PRO337 CC similarly, PRO493 polypeptide is useful for detecting PRO337 CC similarly, PRO493 polypeptide is useful for detecting PRO337 PRO493 polypeptide. PRO700 or PRO739. PRO700 or PRO739. PRO4939 polypeptide is useful for detecting PRO325, PRO700 or PRO739. PRO4937 polypeptide is useful for inking a bloactive molecule to a cell expressing PRO337 polypeptide. The bloactive molecule to a cell expressing PRO493 polypeptide. The bloactive molecule to a cell expressing PRO493 polypeptide is useful for inking a bloactive molecule to a cell expressing PRO493 polypeptide. The bloactive molecule co a cell expressing PRO735, PRO493 polypeptide is useful for modulating the biological activity of the cell expressing PRO337 Polypeptide is useful for modulating the professing PRO337 polypeptide is useful for modulating the professing PRO337 polypeptide or anni-PRO337 polypeptide is useful for modulating the professing PRO725, PRO700 or PRO739 polypeptide professing PRO493 polypeptide professing PRO337 polypeptide or anni-PRO337 polypeptide or anni-PRO337 polypeptide or anni-PRO700 or PRO739 polypeptide professing PRO493 polypeptide professing PRO337 polypeptide professing PRO493 polypeptide professing PRO493 polypepti
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f E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, 'Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt
, Williams PM, Wood WI;
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RESULT 395
ADL07397;
XX Human; ssi
XX Ophthalmol; ssi
XX Ophthalmol; ssi
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XX 25-OCT-199
PR 25-OCT-199
PR 07-OCT-199
PR 07-OCT-199
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PR 07-DEC-199
PR 11-MAX-199
PR 10-MAR-199
PR 10-MAR-199
PR 11-MAX-199
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22-DEC-1998;
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26-JUN-1998;
07-OCT-1998;
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12-APR-1999;
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10-MAR-1999;
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Query Match
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Matches 17
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99WO-US031243.
200WO-US000217.
2000WO-US000277.
2000WO-US003576.
2000WO-US003576.
2000WO-US00341.
2000WO-US005004.
2000WO-US005004.
2000WO-US005319.
2000WO-US006319.
2000WO-US00843.
2000WO-US00843.
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S-00187368.
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32-MAY-2000;
30-MAY-2000;
22-UN-2000;
24-UU-2000;
24-NOV-2000;
27-NOV-2000;
27-NOV-2000;
20-DEC-2000;
20-MAR-2001;
22-MAR-2001;
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2000US-007237678
2000US-00747259
2000WO-US034956
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2001US-00854208
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2000US-00709238.
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2000WO-US020710.
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2000WO-US014941.
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Ashkenazi Ferrara N, Goddard A, Kljavin IJ Stewart TP WPI; 2004-282524/26. ĮĮ, , i AJ, Baker KP, N, Filvaroff E, A, Godowski PJ, IJ, Kuo SS, Nap TA, Tumas D, Wi Napier MA, Pa Williams PM, Botstein D, Desnoyers L, Eaton DL; Fong S, Gao W, Gerber H, Gerritse Grimaldi JC, Gurney AL, Hillan KJ; ier MA, Pan J, Paoni NF, Roy MA, lliams PM, Wood WI; Eaton DL; Gerritsen ME; Shelton

polynucleotides and are useful i cumors are useful in and polypeptides, used in chromosome mapping ar ed as molecular weight and tissue typing and Ħ

Example 114; SEQ ID NO 564; 464pp; English

The invention relates to an isolated PRO polypeptide (secreted or CC transmembrane protein) having at least 80% amino acid sequence identity CC to an amino acid sequence chosen from 94 fully defined sequences as given cin the specification (including PRO lacking its associated signal compiled. Also included are nucleic acids encoding the PRO proteins comprising between the properties. Also included are nucleic acids encoding the PRO proteins comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising comprising the vector and producing PRO, a chimaeric molecule comprising comprising the propagation of containing PRO4993.

CC polypeptide in a sample suspected of containing PRO4993 polypeptide. CC Similarly, PRO4993 polypeptide is useful for detecting PRO4993 polypeptide. PRO700 or PRO739, PRO700 or PRO739 polypeptide is useful for detecting PRO1559 polypeptide. PRO700 or PRO739, PRO4993 polypeptide is useful for detecting PRO1559 polypeptide. The bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive molecule is the toxin, radiolabel, or an antibody. The bioactive molecule to a cell expressing PRO337 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO339 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO339 polypeptide is cell expressing PRO337 polypeptide is useful for linking a cell professional activity of the cell expressing professional professional activity of the cell expressing professional professional activity of the cell expressing professional professional activity of the cell professional professional professional professional professional professional profession polypeptide anti-PRO700

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Best Local S
Matches 17
The invention relates to a class of CpG immunostimulatory oligonucleotides containing a 5'TCG motif or a CG at or the 5' end that are useful for stimulating an immune response. Oligonucleotides and compositions of the invention are useful for treating allergy or asthma, viral and bacterial infections and cancer e.g. biliary tract cancer, breast cancer, cervical cancer, choricoarcinoma, colon cancer, endometrial cancer, gastric cancer, lymphomas, intraepithelial neoplasms, liver cancer, lung cancer (e.g. small cell and non-small cell), melanoma, neuroblastomas, ovarian cancer, pancreatic cancer, prostate cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRO739 polypeptide is useful for modulating the biological activity of the cell expressing PRO725, PRO700 or PRO739 polypeptide. The polypeptides are useful for inhibiting tumour growth, retinal disorders, sports-related joint problems, articular cartilage defects, osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in mammals. The present sequence is a Tagman PCR probe used investigate PRO gene amplification in certain tumour cell lines.
                                                                                                                                                                                              New oligonucleotides, useful for treating allergy or asthma, bacterial infections, and cancer, e.g. biliary tract cancer,
                                                                                                                                                                                                                                                                                                                                            11-DEC-2002; 2002US-0432409P
25-SEP-2003; 2003US-0506108P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           viral infection; bacterial infection; cancer; lymphoma;
intraepithelial neoplasm; melanoma; neuroblastoma; Hodgkin's lymphoma;
carcinoma; sarcoma; gene therapy; phosphorothioate; ss.
                                                                                                                                                  Example; SEQ ID NO 13; 104pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CpG immunostimulatory oligonucleotide;
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                                                                                                                                                                                                                                                                                                   GROUP INC.
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No. 3
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breast
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RESULT 397
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CC clamping method (M1), which can be used for detecting the presence of CC clamping method (M1), which can be used for detecting the presence of CC enjetide polymorphisms (SNPs) in a target gene. (M1) comprises: CC (a) using a peptide nucleic acid (PNA) probe having a reverse CC complementary strand sequence of a partial sequence containing one or CC mutant target DNA; (b) a primer set containing a lower primer having a CC reverse complementary strand sequence of a partial sequence containing a CC one or more mutations in the sense strand of a mutant or a wild-type or a CC and an upper primer having a reverse complementary strand sequence of a partial sequence of a partial sequence of a mutant or a wild-type target DNA or a partial sequence of a cC partial sequence containing one or more mutations in the antisense strand of a mutant or a wild-type target DNA or a partial sequence of a cC partial sequence of a vicinity CC like the one base mutation, and (c) a further lower or upper primer cC having a reverse complementary strand sequence of a partial sequence in the 3' region of the partial sequence containing one or more mutations in the sense or antisense strand of a mutant or a wild-type target DNA. (M1) is useful for detecting the presence of SNPs in a target gene. (M1) is carget gene. The present sequence represents a primer used in an aldehyde
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      polymerase chain reaction clamping; PCR clamping; detection; single nucleotide polymorphism; SNP; peptide nucleic acid pr PNA probe; mutation; aldehyde dehydrogenase II; ALDH2; prime
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Polymerase chain reaction clamping for improved detection of the presence of single nucleotide polymorphisms in a target gene, comprises using a peptide nucleic acid probe, and a primer set containing lower and upper
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28-NOV-2002; 2002JP-00345136
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RESULT 398
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AX AAH399
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Sequences AAH37205 - AAH40944 represent PCR primers, single nucleotide CC primer extension (SNPE) primers, and the sequences of regions flanking CC sites of single nucleotide polymorphisms SNPs. The present invention CC includes kits for determining the presence or absence of a SNP, using the coligonucleotides of the invention. The PCR primers are used to amplify a CC SNP flanking sequence, the SNPE primer is used as a genotyping primer. CC The oligonucleotides are useful for genotyping a nucleic acid sample by performing a single-nucleotide primer extension reaction. The CC oligonucleotides are useful for determining the presence, absence or cidentity of a SNP and for genotyping nucleic acid samples, for e.g. to CC assess by association analysis the genotype of an individual or group of CC assess by association analysis the genotype of an individual or group of CC assess by association analysis the genotype of an individual or group of CC assess by association analysis the genotype of an individual or group of CC assess by association analysis the genotype of an individual or group of CC assess by association analysis the genotype of an individual or group of CC assess by association analysis the genotype of an individual or group of CC assess by association analysis the genotype traits include diseases e.g. CC caused by one or more SNPs. Phenotypic traits include diseases e.g. CC dystrophy, familial hypercholesterolaemia, polycystic kidney disease, CC disease of which a component is or may be genetic such as autoimmune CC disease of which a component is or may be genetic such as autoimmune CC inflammation, cancer, nervous system diseases and infection by pathogenic conflictions.
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                                                                                                                                                      The present invention describes nucleic acid molecules which modulate the synthesis, expression and/or stability of a mRNA encoding 1 or more receptors of vascular endothelial growth factor (VEGF). A patient (preferably human) having a condition associated with the level of the fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be treated by administering the nucleic acid molecule or the expression vector to the patient. AAX67275 to AAX75752 represent specific examples of nucleic acid molecules from the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1; KDR; hammerhead ribozyme; hairpin ribozyme; cleavage; tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease; fms-like tyrosine kinase 1; kinase insert domain containing receptor; foetal liver kinase 1; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          rheumatoid arthritis, etc., in a human patient.
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ABZ81758

ABZ81758 standard; DNA;

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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          07-AUG-2001; 2001US-0310757P
08-AUG-2001; 2001US-0310780P
08-AUG-2001; 2001US-0310889P
04-DEC-2001; 2001US-0337219P
                                                                                                                                                              18-DEC-2003
                                                                                                                                                                                             ADC37821,
                                                                                                                                                                                                                           ADC37821
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New single stranded oligonucleotides comprising a DNA domain having least one mismatch with respect to the genetic sequence of the Huntington's disease gene to be altered, useful for treating or preventing Huntington's disease.
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 WO2003037931-A2
                                                Synthetic.
                                                                                                                            Human AMLP1a scanning 17-mer oligonucleotide SEQ ID NO:170.
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                                                                                             human; angiomotin-like protein 1; AMLP1; cytostatic; gene therapy;
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                                                                                                                                                                                                                           standard;
                                                                                                                                                                                                                                                                                                          TIGCIGTIGCTGCTG 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   which can be used for the treatment or prevention of HD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Parekh-Olmedo
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2001US-0310889P.
2001US-0337219P.
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Pred. No.
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RESULT 403
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New isolated nucleic acid molecule encoding a human angiomotin-like protein, useful for treating or preventing a disorder associated with decreased or increased expression or activity of AMLP1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       human; angiomotin-like protein 1; AMLP1; cytostatic; gene therapy;
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New isolated nucleic acid molecule encoding a human angiomotin-like protein, useful for treating or preventing a disorder associated widecreased or increased expression or activity of AMLP1.

with

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RESULT 404
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                                                                                                                                                                                        The present invention describes the human angiomotin-like protein 1 (AMLP1). human AMLP1 has cycostatic activity, and can be used in gene therapy. The AMLP1 protein, nucleic acid molecules, antibodies, and compositions of the present invention can be used for treating or preventing a disorder associated with decreased or increased expression or activity of AMLP1. The present sequence represents a geanning oligonucleotide for human AMLP1a, which is used in an example from the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New isolated nucleic acid molecule encoding a human angiomotin-like protein, useful for treating or preventing a disorder associated widecreased or increased expression or activity of AMLP1.
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Local Similarity nes 15; Conserv
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                                                                                                          5 C; 5 G; 0 T; 0 U; 0 Other;
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                               100.0%;
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                                                         1.18;
                         Score 15; Pred. No.
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Pred. No.
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. 4.7e+02;
                                                         'DB 1;
                               4.7e+02
                                                   Length 17;
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ABK11198/ ID ABK1 XX

ABK11198 standard;

DNA;

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RESULT 406

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RESULT 405
ANAH19623/c
ID ANAH196
XX ANAH196
XX Oligon
XX Polygl
KW Huntin
KW Spinoc
KW WPI;
XX WASI
PI Housma
XX WPI;
XX Scree
PI treat:
PI creat:
PI creat
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                                                                                                                                                    Query Match
Best Local S
                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                   method for identifying a compound which disrupts polypeptide aggregation. The method is carried out using a cell which has been genetically modified to express aggregation-disposed polypeptides, or using purified aggregation-disposed polypeptides. The compounds identified by this method are useful for treating disorders associated with such polypeptide aggregation, including Huntington's disease, Alzheimer's disease, Parkinson's disease, spinocerebellar ataxia, multiple myeloma, amyloidosis, and spongiform encephalopathies like Creutzfeldt-Jakob disease and kuru in humans. The present sequence was annealed to its complement to generate double stranded duplex DNA with trinucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Screening for agents which disrupt aggregation of polypeptides for treating aggregation-associated disorders e.g. Alzheimer's disease, using aggregation-disposed polypeptides or cell expressing the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        polyglutamine region; polypeptide aggregation; aggregation disruption; huntington's disease; Alzheimer's disease; Parkinson's disease; personancerobellar ataxia; multiple myeloma; amyloidossis; anticonvulsant; spongiform encephalopathy; neuroprotective; nootropic; antiparkinsonian;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present sequence was used to generate a polypeptide with extended polyglutamine regions. This was performed in an example illustrating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAH19623;
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                                                                                                                                                                                                                                               Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 1; Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Housman DE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        27-SEP-2000; 2000WO-US041008
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                                                                                                                          15;
                                                                                                                                                       Similarity
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                                                                                                                                                                                                                                               BP; 9
                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Preisinger EA,
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                                                                                                                                                                                                                                               A; 6 C; 3 G; 0 T; 0 U; 0 Other;
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                                                                                                                                                    Score 15; DB 1;
Pred. No. 4.4e+(
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                                                                                                                              Mismatches
                                                                                                                                                       4.4e+02
                                                                                                                                                                                        Length 18
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                                                                                                                              Gaps
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RESULT 407
ABZ81759/c
ID ABZ817
XX
AC ABZ817
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                                                                                                                                                                                                                                                                                                                      The present invention relates to therapeutic agents comprising a first CC domain (D1) that binds a protein having at least seven consecutive CC glutamine (Glu) residues, a second domain (D2) that binds another protein CC having at least 7 consecutive Glu residues, and a third domain (D3) that CC separates D1 from D2. The therapeutic agents of the invention are useful CC for inhibiting protein-protein interactions (e.g. aggregation, and can CC be used for treating Alzhelmer's disease, and disorders in which CC polyglutamine-containing transcription factors or coactivators are CC polyglutamine-containing transcription factors or coactivators are CC polyglutamine-containing transcription factors or coactivators are CC ceitably active (e.g. disorders associated with homodimerisation of jun CC or hexamerisation of p53. The therapeutic agents can also be used to transcleotide (CAG) repeats. For example such disorders an include CC trinucleotide (CAG) repeats. For example such disorders can include CC dentatorubral-pallidoluysian atrophy, spinocerebellar atrophy (SBMA), CC dentatorubral-pallidoluysian atrophy, spinocerebellar atrophy (SBMA), CC dentatorubral-pallidoluysian atrophy, spinocerebellar atrophy (SBMA) The presents an oligonucleotide used to generate double stranded CC DNA with trinucleotide extensions
                                                                                                                                                                                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     polyglutamine-containing transcription factor; hexamerisation of p53; homodimerisation of jun; expanded trinucleotide repeat; CAG repeat; Huntington's disease; HD; primal and bulbar muscular atrophy; SBMA; dentatorubral-pallidoluysian atrophy; spinocerebellar ataxia type 1; spinocerebellar ataxia type 2; spinocerebellar ataxia type 6; spinocerebellar ataxia type 7; Machado-Joseph disease; MJD/SCA3;
    ABZ81759;
                                        ABZ81759 standard; DNA; 18
                                                                                                                                                                                                                                                                                        Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Novel agent for inhibiting protein-protein interaction useful to treat Alzheimer's disease, has two domains which bind first, second proteins with seven consecutive glutamine residues and a domain separating two
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2002-280948/32.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20-AUG-2001; 2001WO-US026097
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Inhibition of protein-protein interaction; Alzheimer's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     05-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    nootropic; anticonvulsant; cerebroprotective; neuroprotective; ss.
                                                                                                                                                                        725
                                                                                                                                      18
                                                                                                                                                                        rrecrerrecre 739
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                                                                                                                                                                                                                                                                                        BP; 9
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                                                                                                                                                                                                                Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8; 40pp; English.
                                                                                                                                                                                                                                                                                        P
                                                                                                                                                                                                                                                                                      6 C; 3
                                                                                                                                                                                                                                  100.0%;
                                                                                                                                                                                                                              1.1%; Score 15;
100.0%; Pred. No.
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                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                        G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                DB 1; I
. 4.4e+02;
                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                  Length 18
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ADK67650/c
ID ADK676
XX ADK676
AC ADK676
XX O6-MAY
XX Untin
XX Huntin
XX Huntin
XX Huntin
XX Huntin
XX Hundan;
XX Hundan;
XX Hundan;
XX Hundan;
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                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                    Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                The present sequence is an example of a poly-glutamine triplet repeat region found in exon 1 of the Huntington's disease (HD) gene. In an example from the invention, neuronal PC12 cells were engineered to include an HD gene exon 1 containing this sequence. These cells were used to demonstrate the ability of single-stranded chemically-modified oligonucleotides (see ABSB1747-51) to decrease the formation of Huntington's protein (huntingtin) aggregates in cell culture. The invention provides chemically modified oligonucleotides that target sequence alterations to the triplet repeat region of the HD gene exon 1 and/or which reduce the formation of huntingtin protein-containing aggregates. These are useful for the treatment or prevention of HD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New single stranded oligonucleotides comprising a DNA domain least one mismatch with respect to the genetic sequence of th Huntington's disease gene to be altered, useful for treating preventing Huntington's disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   07-AUG-2001; 2001US-0310757P.
08-AUG-2001; 2001US-0310770P.
08-AUG-2001; 2001US-0310889P.
04-DEC-2001; 2001US-0337219P.
                                                                                        Huntington's disease
                                                                                                                                                                                                                                                                                                                                             Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     07-AUG-2002; 2002WO-US025352
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Huntington's disease; nootropic; anticonvulsant; huntingtin; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11-JUN-2003
                           Homo sapiens
                                                                Huntington's
                                                                                                                   06-MAY-2004
                                                                                                                                             ADK67650;
                                                                                                                                                                       ADK67650 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 5;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Kmiec EB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20-FEB-2003
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                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Parekh-Olmedo
                                                                                                                                                                                                                                                                                                                                           B₽;
                                                                                                                                                                                                                                                                                          Conservative
                                                                disease; huntingtin;
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                                                                                                                   (first entry)
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                                                                                                                                                                                                                                                                                     100.0%; **
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                                                                                                                                                                       ВP
                                                                                                                                                                                                                                                                                                                                            G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 triplet
                                                                                                                                                                                                                                                                                                    Score 15;
Pred. No.
                                                                                                                                                                                                                                                                                          Mismatches
                                                                                         DNA fragment.
                                                                protein aggregation; gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  repeat
                                                                                                                                                                                                                                                                                                    DB 1; Le
. 4.4e+02;
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                                                                                                                                                                                                                                                                                                                 Length 18
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WO2004014306-A2

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XC AAXO65
XX O6-APR
XX (-)-li
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XX spear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present sequence is that of a fragment of exon 1 of the Huntington's CC disease (HD) gene comprising HD gene exon 1 and an enhanced green fluorescent fusion gene was used in examples from the invention investigating the ability of different oligonucleotides to reduce protein aggregation in CC PC12 cells containing integrated copies of the fusion gene. The invention is based on the discovery that oligonucleotides unrelated in sequence to that of a nucleic acid which encodes a protein aggregant can be effective in disrupting or preventing aggregation in disorders of protein assembly. A claimed method for identifying, from a plurality of oligonucleotide species that disrupt aggregation of a protein aggregant in a cell, comprises introducing the oligonucleotides separately into cells that have or are cellikely to develop protein aggregates, and identifying grown cleotides are useful for treating adjsorder of protein assembly collected as t preventing, reducing or disrupting aggregation. The collective at preventing, reducing or disrupting aggregation. The collective at preventing, reducing or disrupting aggregation. The collective at preventing the sease, spinobubar muscular atrophy, collectides are useful for treating adjsorder of protein assembly solutions. Parkinson's disease, spinobubar muscular atrophy. CC spinocerebellar ataxia types 1, 2, 3, 6 and 7, dentatorubral collective at the collective of the thyroid, chronic renal failure, congestive medullary carcinoma of the thyroid, chronic renal failure, congestive ampliadousias.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                        (-)-limonene-6-hydroxylase; (-)-limonene-3-hydroxylase; L3H; L6H; spear mint; peppermint; enzyme; limonene hydroxylase; trans-carveol; trans-isopiperitenol; pathogen defense mechanism; attractant; environmental signal; monoterpene hydroxylase; PCR primer; ss.
                                                                                                                                                                               06-APR-1999
                                                                                                                                                                                                                                                            AAX06572 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 1; Page 26; 59pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Identifying the oligonucleotide species that disrupts aggregation of a protein aggregant in a cell by introducing the oligonucleotide species composition separately into cells that have or are likely to develop
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Kmiec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   07-AUG-2002; 2002US-0402198P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         07-AUG-2003; 2003WO-US024868.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 aggregation.
                                                                                                                                       (-)-limonene-6-hydroxylase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2004-180536/17
                                                                                                                                                                                                                                                                                                                                                                                             725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ) UNIV DELAWARE
                                                                                                                                                                                                                                                                                                                                                         81
                                                                                                                                                                                                                                                                                                                                                                                                                                     15;
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                                                                                                                                                                                                                                                                                                                                                                                             TIGCTGTTGCTGCTG 739
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Parekh-Olmedo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; 6 C; 3 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%;
                                                                                                                                       primer 3.B.
                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 15; DB 1; I
Pred. No. 4.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                     0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 18
                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                   0
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                                                                                                                                                                                                                                                                                                                                                                                                                                     0
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CC Immonene-6-hydroxylase (L6H) and peppermint (-)-limonene-3- hydroxylase (L3H). Host cells containing a vector comprising the nucleotide sequences CC (L3H). Host cells containing a vector comprising the nucleotide sequences CC can be used for the recombinant production of limonene hydroxylases or of CC primary enzyme products. The primary enzyme products are trans-carveol in CC the case of (-)-L6H or trans-isopiperitenol in the case of (-)-L3H, which CC are of subsequent use, to obtain enhanced expression of limonene CC isopiperitenol production as a predactor or pathogen defense mechanism, CC isopiperitenol production as a predactor or pathogen defense mechanism, CC attractant or environmental signal. The limonene hydroxylase cDNAs also CC provide a useful tool for isolating other monoterpene hydroxylase genes CC and for examining the developmental regulation of monoterpene CC biosynthesis. Sequences AAX06564-73 represent primers for the PCR CC amplification of (-)-limonene-6-hydroxylase cDNA
AAZ99489/C
ID AAZ994
XX
AC AAZ994
AC AAZ994
AC Brimer
XX
Gibber
KW Gibber
KW 2-oxid
KW 8eed g
KW transg
XX
Cucurb
PN WO2000
PN WO2000
PF 10-AUG
PR 10-AUG
PR 10-AUG
PR 10-AUG
PR 10-AUG
PR 10-AUG
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                       Gibberellic acid; copalyl diphosphate synthase; 3beta-hydroxylase; 2-oxidase; phytoene synthase; C-20 oxidase; 2beta,3beta-hydroxylase; seed germination; seedling growth; gibberellin biosynthetic pathway;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New isolated limonene hydroxylase nucleic acids - which encode limonene-6 -hydroxylase and limonene-3-hydroxylase, which can be used to produce trans-carveol and trans-isopiperitenol.
   10-AUG-1998;
07-JUN-1999;
                                                   10-AUG-1999;
                                                                                                                                                         Cucurbita maxima.
                                                                                                                                                                                         transgenic
                                                                                                                                                                                                                                                                           Primer HOOK for cDNA encoding a C-20 oxidase polypeptide
                                                                                                                                                                                                                                                                                                                03-JUL-2000
                                                                                                                                                                                                                                                                                                                                                AAZ99489;
                                                                                                                                                                                                                                                                                                                                                                                  AAZ99489 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 19 BP; 0 A; 0 C; 0 G; 18 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 4; Page 27; 80pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Croteau RB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             24-JUN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-DEC-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO9859042-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mentha spicata.
                                                                                     24-FEB-2000
                                                                                                                       WO200009722-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VINU ( WINU)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1519 ТАААААААААААСТААА 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19 DAAAAAAAAAAAAAAAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                         plant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Lupien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WASHINGTON STATE RES
                                                                                                                                                                                                                                                                                                              (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98WO-US012581.
   98US-0096111P.
99US-0137977P.
                                                     99WO-US018066.
                                                                                                                                                                                         hypocotyl;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        84.2%;
                                                                                                                                                                                                                                                                                                                                                                                  19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 15; DB 1;
Pred. No. 4.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
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RESULT 411
AAD15201/c
ID AAD152
XX AAD152
XX 01-NOV
XX 01-NOV
XX Patty
KW Patty
KW nervou
KW 18chae
KW haemog
KW Coagul
KW Grave
KW Grave
KW Grave
KW Grave
XX Unider
XX Unider
XX Unider
XX 02-AUC
XX DF 25-JAL
XX (DIGI-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present primer was used to reverse transcribe cDNA encoding a C-20 coxidase. The amplific fragment is used in the method of the invention. The specification describes methods for the inhibition and control of controlled by use of a chimeric expression construct expressing a RNA or controlled by use of a chimeric expression construct expressing a RNA or crostein which suppresses the gibberellin biosynthetic pathway sequence, controlled by use of a chimeric expression construct expressing a RNA or crostein which suppresses the gibberellin biosynthetic pathway sequence, control substrate from the pathway, or degrades pathway substrates or products. The methods uses copalyl diphosphate synthase, 3beta-doctory are products, phytoene synthase, C-20 oxidase, and a control seed germination and seedling growth especially to used to control seed germination and seedling growth especially to regulate gene products of gibberellin biosynthetic pathway and crestoration of normal seed germination, in transgenic plants. The plants produced are gibberellin deficient, and have shortened hypocotyl and/or epicotyl phenotypes compared to normal plants
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                          nervous system disorder; Parkinson's disease; immune system disorder; ischaemia; lymphopaemia; leukocyte adhesion deficiency syndrome; haemoglobinuria; anaemia; hyperproliferative disorder; Gaucher's disease; coagulation disorder; blood platelet disorder; autoimmune disorder; dermatitis; herpes simplex; Addison's disease; rheumatoid arthritis; Grave's disease; gene therapy; antiarteriosclerotic; immunostimulant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Obtaining transgenic plant useful for controlling seed germination as seedling growth comprises transgene comprising a sequence expressing altered levels of an essential hormone.
                                                                                                                                                                                                                                                                                                                                                                                                               Fatty lesion development; atherosclerosis; Alzheimer's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    3' sequencing primer #1 to identify and characterise polynucleotides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAD15201 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2000-224351/19.
    Leonardi
                                                                                                                                                                                                  WO200154651-A2
                                                                                                                                                            02-AUG-2001
                                                                             25-JAN-2000; 2000US-0177963P
                                                                                                                   25-JAN-2001; 2001WO-US002439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (MONS ) MONSANTO
                                          (DIGI-) DIGITAL GENE TECHNOLOGIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1519
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BAAAAAAAAAAAAAAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Elich
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Page 262;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Rao S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
    Sartani A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0 C; 0 G; 18 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Heck GR,
    Glass JR, Sutcliffe JG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ۲,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           _
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 15; DB 1; Le
Pred. No. 4.2e+02;
1; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Kishore GM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Loguach EW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
      Hasel KW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Loguach
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cc fatty lesion development, which comprises any of 55 polynucleotide compenses from Cryctolagus cuniculus. The polynucleotide, polypeptide or cantibody is useful for preventing, treating modulating or ameliorating a condition, particularly atherosclerosis. The invention is used as can marker or detector of nervous system disorder or disease (e.g. Crychtion is disease, Alzheimer's disease, ischaemia, dementia). The crycus system disorder or disorders of the immune system (e.g. lymphopaenia, leukocyte adhesion deficiency constraints of the immune system (e.g. lymphopaenia, hyperproliferative disorders of the immune system (e.g. lymphopaenia, hyperproliferative disorders of ce.g. Gaucher's disease), infectious disease (e.g. herpes simplex), consquiation disorders, blood platelet disorders and autoimmune disorders (Addison's disease, rheumatoid arthritis, dermatitis, Grave's disease). The polynucleotide sequence is also used in gene therapy. The present conscience is a 's sequencing primer used in the identification and constraints and constraints and constraints are present constraints.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New polynucleotides regulated by fatty lesion development and their encoded polypeptides, useful for preventing, treating or ameliorating atherosclerosis, as well as for immune or hyperproliferative disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI;
Sequence 19 BP; 0 A; 0 C; 0 G; 18 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention relates to an isolated nucleic acid regulated fatty lesion development. which commonly a control of the 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 1; Page 79; 188pp; English.
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Matches
                                                     Query Match
Best Local
                   1519 TAAAAAAAAAAAGTAAAA 1537
19
                                            16;
                                                      Similarity
BAAAAAAAAAAAAAAAAAAA 1
                                            Conservative
                                                     84.2%;
                                          1; Mismatches
                                                     Score 15; DB 1;
Pred. No. 4.2e+02;
                                                                Length 19
                                            0
                                            Gaps
                                             0,
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RESULT 412
AAH21968/c
Mouse; human; total gene expression analysis; TOGA; DST; EST;
                                               Mouse total gene expression analysis (TOGA) 3' sequencing
                                                                                              16-AUG-2001
                                                                                                                                        AAH21968;
                                                                                                                                                                                     AAH21968 standard; DNA; 19
                                                                                           (first entry)
                                               primer
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digital sequence tag; expressed sequence tag; neuroleptic; antimanic; central nervous system; antidepressant; gene therapy; diagnosis; neuropsychiatric disorder; schizophrenia; bipolar disorder; addiction-related behaviour; chromosome identification; immune response; primer; probe; ss.

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Mus musculus
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WO200130972-A2

03-MAY-2001.

26-OCT-2000; 2000WO-US029690.

26-OCT-1999; 99US-0161379P.

(DIGI-) DIGITAL GENE TECHNOLOGIES INC.

WPI; 2001-300499/31

ĘĄ,

Sutcliffe

ģ,

Pribyl TM,

Hilbush

Β,

Hasel

New neuroleptic-regulated polynucleotides expressed in the central nervous system for diagnosing and treating neuropsychiatric disorders

schizophrenia, bipolar disorder and addiction-related behavior.

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RESULT 413
AAF76617/c
ID AAF766
XX AAF766
XX Spearm
KW Spearm
KW Spearm
KW (-)-11
XX Mentha
XX US6194
XX WOUS6194
XX US6194
XX US6194
XX US6194
XX US6194
XX US6194
XX UNIW
XX US6194
XX UNIW
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CC acid molecules. (I) have neuroleptic, antimanic and antidepresent CC encoded by (I), or a host cell (III) comprising (I), are useful for CC encoded by (I), or a host cell (III) comprising (I) are useful for CC preventing, treating, modulating or ameliorating a medical condition such as a neuropsychiatric disorder. (I) are useful as diagnostic agents for CC diagnosing a pathological condition or susceptibility to a pathological condition or susceptibility to a pathological condition or susceptibility to a pathological condition such as neuropsychiatric disorder e.g. schizophrenia, a bipolar CC disorder or addiction-related behaviour. (I) are useful for detecting the gresence of a nucleic acid encoding a protein in a mammalian tissue conditions and problem of the control gene expression through triple helix formation or antisense DNA or RNA, in gene therapy to treat the above mentioned disorders, identifying individuals from minute biological samples, as an CC polymorphic markers for forensic purposes. (I) is also useful as CC molecular weight markers on Southern gels, diagnostic probes for the CC presence of specific mRNA in a particular cell type, as a probe to condition of the respect, to raise anti-DNA antibodies using DNA CC immunisation technique, and as an antigen to elicit an immune response. AAH21877 to AAH21984, AAB98083 and AAB98084 represent sequences used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local (
                                   Novel isolated limonene hydroxylase encoding nucleic acid molecule, useful for altering production of limonene-6-hydroxylase or limonene-3-hydroxylase in suitable host cell.
                                                                                                                                                                                                                                                                                                                                                                                                              14-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Spearmint; peppermint; (-)-:
(-)-limonene-3-hydroxylase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Spearmint (-)-limonene-6-hydroxylase PCR primer SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAF76617 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
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acid molecu
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mentha spicata.
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                                                                                                                                                                                                                                                                                  (UNIW ) UNIV WASHINGTON STATE RES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP; 0 A; 0 C; 0 G; 18 T; 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (-)-limonene-6-hydroxylase;
lase; flavour; aroma; probe;
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Pred. No. 4.2e+02;
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Best Local S
Matches 16
  Matches
                    Query Match
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                                                                                                                                             The present invention provides the protein and coding sequences of the Taenia solium metacestodes 10kDa antigen. The sequences can be used in the diagnosis of T. solium infection, which current methods are incapably of distinguishing from other parasitic infections. Infection by the parasite causes neurocysticerocosis, which can then lead to neurological diseases, in Asia, Africa and the Latin Americas. The present sequence in a PCR primer for the coding sequence of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention provides the protein and coding sequences of the peppermint and spearmint (-)-limonene-3-hydroxylase and the spearmint (-)-limonene-6-hydroxylase. Also provided are a number of probes and PCR primers which were used to isolate the sequences. These are useful in the production of transgenic plants with altered flavour and aroma
                                                                                                                                                                                                                                                                                                                                                                                             Novel purified recombinant Taenia solium metacestodes protein useful for detecting neurocysticerocosis disease, has specified molecular weight and is encoded by truncated fragment of open reading frame DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10kDa antigen; immur neurocysticerocosis
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                                                                                            Sequence 19
                                                                                                                                                                                                                                                                                                                                              Example 2; Page 10; 33pp; English
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CHUNG J.
BAHK Y Y.
KANG S.
CHO S.
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                                                                                               BP; 9 A; 2 C; 7 G; 1 T; 0 U; 0 Other;
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  Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   disease;
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                       4.2e+02
                                                DB 1;
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RESULT 415
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                                                                                                  cc microglia and macrophage regulatory gene DST (digital sequences and the complete mouse sequences used to isolate them. The PCR-based total gene CC expression analysis (TOGA) system is used to examine the expression comparison of molecules corresponding to genes that are regulated in CC unstimulated microglia, activated microglia, unstimulated macrophage and CC expression compared to the invention, the CC polypeptides are useful are useful for the diagnosis, prevention, the CC polypeptides are useful are useful for the diagnosis, prevention, the CC polypeptides are useful are useful for the diagnosis, prevention, the CC reatment or amelioration of a medical condition, preferably a CC neuroinflammatory pathology or a neurodegenerative disease such as CC Albahmer's disease, senile dementia, Parkingon's disease, obsessive CC depression and bipolar manic-depressive disorder. The sequences and CC methods of the invention can also be used for detecting or treating CC cancer), immune disorders (e.g. AIDS), hyperproliferative disorders (e.g. outcimmune disorders (e.g. severe combined immunodeficiency, SCID) autoimmatory disorders (e.g. insulin dependent disbetes mellitus), CC inflammatory disorders (e.g. arthritis). The polynucleotides can be used CC for gene therapy
   Query Match
Best Local :
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03-MAR-2000;
19-JUN-2000;
                                                             Sequence 19 BP; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present sequence represents a primer used to isolate novel mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 1; Page 88; 244pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New regulated genes of preventing or treating
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mouse; microglia; macrophage; regulatory gene; digital sequence tag; DS PCR-based total gene expression analysis; TOGA; infectious disorder; PCR-based total gene expression analysis; TOGA; infectious disorder; neuroinflammatory pathology; neurodegenerative disease; gene therapy; hyperproliferative disorder; autoimmune; inflammatory disorder; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mouse microglia and macrophage regulatory gene primer #60
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2000US-0186770P.
2000US-0212465P.
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                     1.1%;
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Score 15; DB 1;
Pred. No. 4.2e+02;
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Best Local Similarity 84.2%; Matches 16; Conservative

1; Mismatches

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RESULT 416
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ID ABK71509/c
XX Centri
XX Centri
XX Parki
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                     This invention relates to the cDNA sequences of novel isolated CC polynucleotides associated with psychoses or other neuropsychiatric CC disorders. The sequences of the invention may act as blockers of D 2 CC receptors in the meso-limbic dopamine system. The nucleotide sequences of the invention and the polypeptides encoded by them are useful in the CC manufacture of a medical condition e.g. a neuropsychiatric disorder. An CC preventing, treating a medical condition e.g. a neuropsychiatric disorder. An CC such as psychoses or other neuropsychiatric disorders or a susceptibility to a neurological disorders in a subject or neuro psychiatric disorders or a CC such as psychoses or other neuropsychiatric disorders or a susceptibility to a neurological disorder such as susceptibility to a neurological disorder such as psychoses and other concurs psychiatric disorders in a subject by determining the presence or determining the alteration (increase or decrease) in the presence or cC absence of mutation in the nucleotide sequence of apolipoprotein D or by CC determining the alteration (increase or decrease) in the expression of control proposition of the invention are useful in treating control proposition by activating or inhibiting the proliferation, control proposition of mobilisation (chemotaxis) of neuroblasts, stem cells or glial cells. The sequences are useful as a marker or detector of a particular nervous system disease or disorders such as Alzheimer's consense, Pick's disease, obsessive compulsive disorders, epilepsy, encephalopathy, ischaemia, addiction, multiple sclerosis, depression and consenses of the invention of the conva sequences of the corresponders and consenses as a sequence of the conva sequences.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New polynucleotide useful in gene therapy for preventing, treating modulating or ameliorating a medical condition such as psychoses or a neuro psychiatric disorder e.g. schizophrenia, or a bipolar disorder :
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18-JAN-2001; 2001US-0263084P.
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                                                                                                                                                                                                            The present invention describes an isolated polynucleotide (I) and its C complements, and degenerate variants, comprising a sequence selected from those given in ABQ73206 to ABQ73222 (NS), which is a digital sequence tag (DST) corresponding to mRNAs whose expression is regulated by CC proliferative lesion development caused by mechanically induced intimal C hyperplasia, or by lercanidipine treatment, or by proliferative lesions CC and reversed by lercanidipine treatment, or by proliferative lesions CC and reversed by lercanidipine treatment, (I) has antiatherosclerotic CC activity and can be used in gene therapy. (I) can be used for diagnosing CC amples of the presence or absence of a mutation in (I) and diagnosing CC to atherosclerosis in a subject which involves CC (I) is also useful for diagnosing atherosclerosis, or the susceptibility to atherosclerosis in a subject which involves detecting an alteration CC (I) is also useful for diagnosing atherosclerosis, or the susceptibility to atherosclerosis or accrease) in amount of expression of (I). (I) is also useful for diagnosing or monitoring the effects of treating a subject with dihydropyridine calcium antagonist e.g., lercanidipine. (I) can also be used for preventing, treating, modulating, or ameliorating amedical condition such as atherosclerosis in a mammalian subject. The present invention inventor of the nutration of the present a TOGA primer which is used in the exemplification of
                                 Query Match
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      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New polynucleotides related to regulated genes characteristic of atherosclerosis, useful for diagnosing, preventing, treating, modulating or ameliorating atherosclerosis in a mammalian subject.
                                                                                                                             Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21-NOV-2000; 2000US-0252216P
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                                    Similarity
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                                                                                                                                              The present invention relates to a method for preventing, treating, cc modulating or ameliorating a medical condition. The method involves cadministering one or more nucleic acid molecules up- or down-regulated in the patitis B virus (HBV) infection or polypeptides encoded by the nucleic acid molecules or antibodies that bind to the polypeptide. The method is condition. It is also useful for determining the presence or absence of a cc mutation in the nucleic acid molecules or detecting an alteration in ce expression of the polypeptide which is useful for the diagnosis of hepatitis viral infection (e.g., acute hepatitis versus chronic condition) or assessing the efficacy or toxicity of therapeutic treatment conditions or assessing the efficacy or toxicity of therapeutic treatment conditions or assessing the efficacy or toxicity of therapeutic treatment conditions or assessing the efficacy or toxicity of therapeutic treatment conditions or assessing the efficacy or toxicity of therapeutic treatment conditions or assessing the efficacy or toxicity of therapeutic treatment conditions or assessing the efficacy or toxicity of therapeutic treatment conditions or assessing the efficacy or toxicity of therapeutic treatment conditions or assessing the efficacy or toxicity of therapeutic treatment conditions or assessing the efficacy or toxicity of therapeutic treatment conditions or assessing the efficacy or toxicity of therapeutic treatment conditions or assessing the efficacy or toxicity of therapeutic treatment conditions or assessing the efficacy or toxicity of therapeutic treatment conditions or assessing the efficacy or toxicity of therapeutic treatment conditions. Sequences of the invention are used in gene conditions of the invention are used in gene conditions. The present DNA sequence is a PCR primer which is used for the properties of the present DNA sequence is a PCR primer which is used for the present DNA sequence is a PCR primer which is used for the properties of the primer which is used for the primer wh
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       1519 TAAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1519 TAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               19 BAAAAAAAAAAAAAAAA 1
                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DIGITAL GENE TECHNOLOGIES INC.
                                                                                                                                            BP; 0
                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                            A; 0 C; 0 G; 18 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      for direct sequencing of TOGA generated
                                                                      1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ВP
                                                  1;
                                                                      Score 15; DB 1;
Pred. No. 4.2e+0;
                                                                          2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mueller
                                                                                                Length 19
                                                       Indels
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19

BAAAAAAAAAAAAAAAAA

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RESULT 419
AAD40279/c
ID AAD402
XX AAD402
XX AAD402
XX AAD402
XX G1bber
XX G1ber
XX G1ber
XX G1bber
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XX G1ber
XX G1bber
XX G1ber
XX G1
RESULT 420
ABK94423/c
ID ABK944
XX
AC ABK944
XX
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           agricultural production so that unfavorable environmental conditions normally reducing agronomic output can be avoided and yields increased. Plants also demonstrate increased uniformity of germination, emergence and seedling vigor, so increasing yields at harvest. The method is especially useful in crop plants such as e.g. canola, soybean, cotton, etc., and is also useful in storage and transport of seeds to reduce premature germination which may affect agronomic or food quality of the seeds. The present sequence is a PCR primer used to isolate pumpkin 2beta albeta hydroxylase cDNA. This primer is used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to control of gibberellin (GA) levels in plants. The method involves producing transgenic plants having a phenotype of reduced seed germination and reduced dearly seedling growth, then restoring seed germination and early seedling growth by treating plants with an appropriate compound when conditions are favourable. The method is useful to control seed germination and/or early seedling growth in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Control of gibberellin levels in plants useful to avoid unfavorable conditions in crops to increase yields, using transgenic plants having reduced seed germination and early seedling growth then treatment to restore these properties.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gibberellin; transgenic plant; seed germination; seedling growth; GA; transgenic; 2beta-3beta hydroxylase; enzyme; pumpkin; PCR; primer; ss
                                  ABK94423
                                                                                              ABK94423 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 19 BP; 0 A; 0 C; 0 G; 18 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 19; Page 104; 155pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2002-489107/52.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Piller
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      02-MAY-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        22-OCT-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (BROW/) BROWN S M.
                                                                                                                                                                                                                                                                                                           1519 TAAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                                                                  19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3
                                                                                                                                                                                                                                                                                                                                                                       16; Conserv
                                                                                                                                                                                                                                                  BAAAAAAAAAAAAAAAAA 1
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Rao S, I
                                                                                                                                                                                                                                                                                                                                                                          Conservative
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                                                                                              DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                             1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ream JE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Heck GR,
                                                                                                                                                                                                                                                                                                                                                                    1.
                                                                                                                                                                                                                                                                                                                                                                                                       Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                             Score 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             English.
                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Kishore GM,
                                                                                                                                                                                                                                                                                                                                                                                                       No. 4.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1; Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Logusch
                                                                                                                                                                                                                                                                                                                                                                          Indels
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03-JAN-2003

WO2003000715-A1

Synthetic

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RESULT 421
ABZ683B9/c
ID BZ683
XX ABZ683
XX ABZ683
XX C2-APR
XX Revers
XX Chroma
XX Chroma
XX Chroma
XX Chroma
XX Chroma
XX Synthe
XX Synthe
PN WO2003
XX WO2003
XX WO2003
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to detecting mutations in the BRCA1 and hMLH1 gene comprising subjecting a set of amplification products to two-dimensional DNA electrophoresis (TGDS) to produce a characteristic spot pattern for a specific mutation in either the BRCA1 or the hMLH1 gene. Also included are test kits for enabling BRCA1 or hMLH1 gene testing comprising short PCR primers given in the specification, mixed in 20 mM of Tris-HCl, 50 mM KCl, 25 micro M of GNTP, and 5 % formamide. The method is useful for detecting mutations in the BRCA1 (breast and ovarian cancer susceptibility gene, a tumour suppressor gene) and hMLH1 gene (a DNA mismatch repair gene). The present sequence is a PCR primer specific to
                                                                                            Histone acetyltransferase; histone deacetylase; gene expression profile; chromatin-associated protein; gene expression; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Detecting mutations in the BRCA1 and hMLH1 gene comprises subjecting amplification products to 2-dimensional gel electrophoresis to produce characteristic spot pattern for a specific mutation in either the BRCA1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 hMLH1; DNA mismatch repair; BRCA1; 88; PCR; primer; breast and ovarian cancer susceptibility gene; TGDS two-dimensional DNA electrophoresis; tumour suppress
                                                                                                                                           Reverse transcription primer used to produce yeast cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 6; Page 21; 57pp; English.
                                                                                                                                                                            22-APR-2003
                                                                                                                                                                                                            ABZ68389;
                                                                                                                                                                                                                                           ABZ68389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    hMLH1 used in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           or the hMLH1 gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2002-471507/50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Vijg J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        06-NOV-2000; 2000WO-IB001607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      06-NOV-2000; 2000WO-IB001607
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human MLH1 DNA mismatch repair gene, exon 12,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  27-AUG-2002
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                                                                                                                                                                                                                                                                                                                                            1517 ATTAAAAAAAAAAA 1531
                                                                                                                                                                                                                                                                                                                        16
                                                                                                                                                                                                                                                                                                                                                                                       15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACAD APPLIED SCI
                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                          standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP; 4 A; 1 C; 0 G; 14 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                       Conservative
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                                                                                                                                                                            (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ian cancer susceptibility gene; TGDS; human; DNA electrophoresis; tumour suppressor gene;
                                                                                                                                                                                                                                                                                                                                                                                100.0%;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                  DB 1; Lo
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                                                                                                                                                                                                                                                                                                                                                                                                                   Length 19;
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RESULT 422
ACC79402/c
ID ACC794
XX ACC794
XX O4-AUG
DT 04-AUG
DX M13 8e
XX Pathol
KW Pathol
KW Cytost
XX Synthe
XX W02003
PD 24-APF
XX 17-OC7
XX 17-OC7
XX DF 17-OC7
XX DF 17-OC7
XX PF 17-
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The specification describes chimeric histone acetyltransferase polypeptides. The chimeric polypeptides comprise a polypeptide segment that exhibits histone acetyltransferase activity, and a polypeptide segment having 40% or greater sequence identity to a subunit of a histone deacetylase chromatin-associated protein complex. The chimeric polypeptides are useful for determining gene expression profiles in specific cells, for modulating gene expression in specific cells, and for making genetically modified eukaryotes. The present sequence represents a reverse transcription primer used in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Dang
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pathological condition; ataxia telangiectasia; AT; cytostatic; vaccine; gene therapy; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21-JUN-2002;
                               Preventing or treating a pathological condition e.g., ataxia telangiectasia (AT), AT tumors or other cancers comprises administering
                                                                                                                 WPI; 2003-393520/37.
                                                                                                                                                                                             Barlow
                                                                                                                                                                                                                                                                                                         17-OCT-2001; 2001US-0330206P.
                                                                                                                                                                                                                                                                                                                                                                 17-OCT-2002; 2002WO-US033311.
                                                                                                                                                                                                                                                                                                                                                                                                                    24-APR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO2003033668-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Enterobacteria
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACC79402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACC79402 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       expression in cells.
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                                                                                                                                                                                                                                                      (DIGI-) DIGITAL GENE TECHNOLOGIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1519 ТААААААААААААСТАААА 1537
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
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                                                                                                                                                                                                Winrow CJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP; 0 A; 0 C; 0 G; 18 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Page 54; 85pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gene therapy; PCR
                                                                                                                                                                                                Callahan MLA,
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Pred. No. 4.2e+02;
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RESULT 423
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Best Local S
Matches 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Atherosclerosis; vaccine; nervous system disorder; Alzheimer's disease; Parkinson's disease; multiple sclerosis; immune disorder; gene therapy; autoimmune disorder; rheumatoid arthitis; hyperproliferative disorder; haemolytic anaemia; graft-versus-host disease; inflammation; infection; epilepsy; Addison's disease; neoplasm; tissue regeneration; chemotaxis; food additive; food preservative; primer; ss.
                                                                                                                                                                                                      New polypeptide associated with atherosclerosis, useful for atherosclerosis, nervous system disorders, immune disorders hyperproliferative disorders and infectious diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15-NOV-2000;
28-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3' sequencing
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 19
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                                                                                                                                                                                                                                                                                                                                                                                             Leonardi A,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           (DIGI-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000US-0248892P
2000US-0253623P
                                                                                                                                                                                                                                                                                                                                                                                             Sartani A,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           primer #1 used in the invention.
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Pred. No. 4.2e
1; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           INC.
                                                                                                                                                                                                                                                                                                                                                                                                Sutcliffe JG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4.2e+02;
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The invention relates to polynucleotides and polypeptides associated with atherosclerosis. Polynucleotides of the invention are useful for delivery of genes, DNA vaccines, diagnostic reagents, peptides, proteins or macromolecules. Sequences of the invention are useful for treating

Disclosure; Page 139; 146pp; English

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RESULT 424
AAD50267/c
ID AAD502
XX AAD502
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XX Gene e
KW G
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The present invention relates to a novel simplified TOGA (RTM) method for simultaneous sequence-specific identification of multiple mRNA molecules in a RNA population. The method involves characterising each of the sequence-specific polymerase chain reaction (PCR) products by partial sequence and length. The method is useful for determining tissue-specific patterns of gene expression or mechanisms of drug interaction. It is also useful for drug screening, studying physiological processes, genomic mapping or manufacture of diagnostic, prognostic or therapeutic reagents.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           multiple sclerosis, epilepsy), immune disorders (e.g., autoimmune disorders (e.g., autoimmune disorders euch as rheumatoid arthritis, Addison's disease, haemolytic anaemia, graft-versus-host disease, inflammation), hyperproliferative disorders (e.g., neoplasms) and infectious diseases (e.g., viral, bacterial, fungal or parasite infectious diseases (e.g., viral, bacterial, fungal or parasite infection). They are used for regeneration of tissues, to repair, replace or protect danage tissues, for increasing chemotaxis activity of cells, for increasing or decreasing the differentiation or proliferation of embryonic stem cells from a lineage, for modulating mammalian characteristics, (such as body weight or height), for modulating mammalian metabolism affecting catabolism, anabolism, processing utilisation and storage of energy, to change a mammal's mental or physical state, or as a food additive or preservative. The invention is useful in gene therapy. The present sequence is a
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Simplified TOGA method for simultaneous sequence-specific identification of multiple mRNA molecules in mRNA population, useful for determining tissue-specific patterns of gene expression or mechanisms of drug
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                                                                                                                                                                                                                                                                                                                                                   Disclosure; Page 39; 93pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Quan J, Hilbush
Callahan MA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-FEB-2001; 2001US-00775217.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24-MAR-2003
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Pred. No. 4
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                                                                           This invention describes a novel tumor-associated oligopeptide that is CC recognized as an antigen by CD8+ cytotoxic Tlymphocytes (CTL) and causes CCTL-induced lysis and/or apoptosis of tumor cells, especially multiple CC myeloma cells. The oligopeptide is derived from human PRDI-BF1 (positive CC regulatory domain I-binding factor-1) which is able to induce an MHC (major histocompatibility complex) Class I allele variant A2-restricted CC invention have cytostatic activity and can be used in a vaccine. The CC invention have cytostatic activity and can be used in a vaccine. The CC invention proteins (FP), polynucleotides, vectors, host cells and antibodies and T cell receptors specific for PRDI-BF1 peptides are useful for CC treating diseases associated with PRDI-BF1 particularly tumors. The products of the invention are also useful as diagnostic, therapeutic and CC prophylactic agents for detecting, modifying, generating, expanding cand/or regulating activation and functional status of T cells, and for preparation of poly- or mono-clonal or recombinant A2-restricted T cell candor their functional equivalents. This sequence represents an CR T-PCR primer used to amplify the human PRDI-BF1 gene described in the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New tumor-associated oligopeptide, useful particularly multiple myeloma, is recognized by CD8 cytotoxic T cell derivatives and related nucleic acid.
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Best Local Similarity
                                                                                                                                                                                                                                                                                                      This invention relates to a novel method for preparing a library of samelength signature sequences from a source nucleic acid population. Specifically, it comprises producing solid phase cloned libraries of oligonucleotide tag-DNA signature sequence constructs, which are useful for sequencing many polynucleotides simultaneously. The present invention describes a kit for the construction of adapter signature-adapter constructs using 'first' and 'second' adapters each containing a specific restriction endonuclease recognition site, and which flanks the same length signature sequence. As such, using the method described herein it is possible to do parallel sequencing of large populations of lagonatics. This oligonucleotide sequence is a DNA oligo involved in the step wase process of preparing a library of same length signature sequences from restriction fragments in an exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Preparing a library of same-length signature sequences from a source nucleic acid population by ligating to the cleaved ends, a second adapter containing a recognition and cleavage site for a second restriction endonuclease.
                                                                                                                                                                                                                            Sequence 19
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Vermaas E,
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                                                                                                                                         2e+02;
                                                                                                                                                                      Length 19;
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                                                                                                                 Indels
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RESULT 427
ADD124850/c
ID ADD1248
XX ADD1248
XX ADD248
XX Intest
XX intest
XX intest
XX inflam
X
RESULT 428
AAZ09197/c
ID AAZ091
XX
AC AAZ091
XX
DT 19-OCT
XX
DE Oligon
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention comprises DNA sequences which are associated with intestinal epithelium and peyer's patch M cells. The DNA sequences of the invention are useful for assessing, modifying, modulating or regulating intestinal epithelium or M cell development. The DNA sequences of the invention are also useful in the treatment of: inflammatory bowel disease, glutenenteropathy, infectious diseases, autoimmune diseases (e.g. haemolytic anaemia, rheumatoid arthritis, dermatitis, Grave's disease, multiple sclerosis, allergy, asthma and diabetic mellitus), diseases or disorders of the immune system, hypersensitivity, anaphylaxis, and blood group incompatibility. The present DNA sequence represents a primer that was used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             intestinal epithelium cell development; peyer's patch M cell development; inflammatory bowel disease; glutenenteropathy; infectious disease; autoimmune disease; haemolytic anaemia; rheumatoid arthritis; dermatitis; Grave's disease; multiple sclerosis; allergy; asthma; diabetic mellitus; immune system disorder; hypersensitivity; anaphylaxis; blood group incompatibility; ss; PCR; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Novel isolated or purified polypeptide encoded by genes associated with intestinal epithelium or M cell development, differentiation or function useful for treating autoimmune diseases and infectious diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; SEQ ID NO 360; 152pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Brayden
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      04-APR-2001; 2001US-0281416P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    04-APR-2002; 2002WO-US010873.
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                                                                                                                                                                                                                                                                                                                                                                                                                   1519 TAAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP; 0 A; 0 C; 0 G; 18 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Byrne D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ₿P.
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Pred. No. 4.2e+02;
1; Mismatches 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 19;
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Oligonucleotide 9

for DNA analysis.

19-OCT-1999 AAZ09197;

(first entry)

AAZ09197 standard; DNA;

20 ВP

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RESULT 429
AAZ72079/c
ID AAZ720
XX AAZ720
XX AAZ720
XX IO-SEP
XX Human
XX Homo £
XX Amplif
XX Ampli
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                           Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; highotype; polymorphic characterisation; haplotyping; hybridiastion; identification; characterisation; emplification; single nucleotide polymorphism; SNP; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Analysis of DNA fragment - comprises addition of known cooligonucleotide, amplification of resultant DNA fragment labelling of amplified DNA.
                                                                                                                                                                                                                                                                                           Human biallelic marker upstream amplification primer SEQ ID NO:6435
                                                                                                                                                                                                                                                                                                                                                              10-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAZ72079
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                                 Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TAAAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                                                                                                                                                                       (first entry)
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Pred. No. 4e+02;
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RESULT 430
AAC82923/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                             Recognition system; screening; identification; pharmaceutical; toxin; plant protection agent; toxin; venom; carcinogen; venom; teratogen; herbicide; fungicide; pesticide; beta-actin; human; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20
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23-NOV-1998;
                                       25-MAY-1999;
                                                                  25-MAY-1999;
                                                                                               30-NOV-2000
                                                                                                                         DE19923966-A1
                                                                                                                                                     Homo
                                                                                                                                                                                                                                    Human S-9 derived oligonucleotide #7.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel biallelic markers used to construct a high density disequilibrium
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                                                                                                                                                                                                                                                                                                                         standard; DNA; 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
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                                         99DE-01023966.
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98US-0109732P
                                                                   99DE-01023966
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             RES
             & TECHNOLOGIES
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Pred. No.
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4e+02;
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RESULT 431
AR899800
ID ABK998
XX ABK998
XX ABK998
XX ANTIN
CARD;
KW CARD;
KW RIP a
KW CARD;
KW RIP a
KW PO200
XX PO-JU
XX 29-OU
XX 29-OU
XX 21-NU
X
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This invention describes a novel recognition system comprising at least recognition unit bound to a support, each recognition unit comprising a region A with a defined structure adjacent to a region B with a randomized structure. The recognition system is useful for screening, identifying, or characterizing at least 1 component of a sample, especially nucleic acids and/or proteins, and for screening for and/or identifying cellular or synthetic binding partners, preferably proteins, peptides, nucleic acids, chemical agents, preferably organic compounds, pharmaceuticals, plant protection agents, toxins, venoms, carcinogens, teratogens, herbicides, fungicides or pesticides
                                                                                                                                                               Novel antisense compound that hybridizes and inhibits nucleic acidencoding RAIDD which is an adaptor molecule containing both death and caspase recruitment domains, for treating hyperproliferative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Antisense gene therapy; RAIDD; death domain; caspase recruitment CARD; hyperproliferative disorder; cancer; growth disorder; mouse metabolic disorder; infection; inflammation; tumour formation; RIP associated ICH-1/CED-3-homologous protein with death domain;
                                                                                                                                                                                                                                                                                                                                                                                                                                           01-NOV-2000; 2000US-00705267.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-OCT-2001; 2001WO-US050914.
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                                                                                                                                                                                                                                                                                                                                  Freier SM,
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RESULT 432
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ID ABZ88
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CC recruitment domains (CARD), where (I) specifically hybridises with and CC inhibits expression of RAIDD, or specifically hybridises with at least an CC senucleobase portion of an active site on (II). (I) is useful for inhibiting the expression of RAIDD (Receptor interacting protein (RIP) associated ICH-1/CED-3-homologous protein with death domain) in cells or tissues, and for treating an animal having a disease or condition associated with RAIDD, where the disease or condition is a sesociated with RAIDD, where the disease or condition is a fyperproliferative disorder such as cancer, or a growth or metabolic disorder. (I) is also useful for diagnostics, therapeutics, prophylaxis, as research reagents and kits, for distinguishing functions of various members of a biological pathway, and in antisense gene therapy. (I) is also useful prophylactically, e.g. to prevent or delay infection, inflammation or tumour formation. This sequence represents a mouse RAIDD antisense oligonucleotide used to control expression of the RAIDD protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human
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Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
                                                                                 Bunt
Homo sapiens.
                                                                                 inflammation;
                                                                                 respiratory
                                                                                      disease; ds
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WO200285308-A2

31-OCT-2002

23-APR-2002; 2002WO-US013135

24-APR-2001; 2001US-0286137P

(EPIG-) EPIGENESIS PHARM INC

Nyce JW, Miller S, Li Y, Tang Ļ Sandrasagra A, L, Shahabuddin Katz E, Pabalan 'n Aguilar

ā

WPI; 2003-229219/22.

Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or respiration, has oligo(s) antisense to corresponding RNAs, and glucocorticoid ubiquinone.

Disclosure; SEQ ID NO 4023; 872pp; English

The invention relates to a novel pharmaceutical composition, which has first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5 or 3 end genomic flanking regions, 5 or and 3 intron-exon junctions, or regions within 2-10 nucleotides of polypeptide

The invention targeted to a

describes

acid

compound (I) 8-50 nucleobases d molecule (II) encoding RAIDD

in length which is a

Claim

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Page

95; 144pp; English.

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RESULT 433
AND25011
ID ABD250
XX
AC ABD250
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis; pulmonary transplantation rejection; ss; primer.
                                                                                                                                                                                      Pharmaceutical composition for treating asthma, has antisense oligonuclectide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and bronchodilating agent.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   24-APR-2001; 2001US-0286036P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EPIGENESIS PHARM INC
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L, Shahabuddin
                                                                                                                            NO 4023; 763pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                         Pabalan J,
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This invention describes a novel composition (a) a first active agent, comprising oligonucleotides, effective for alleviating bronchoconstriction, respiratory tract inflammation, allergies and

Typing genes that contain polymorphic microsatellite loci, useful for identifying predisposition to disease, by amplification and determining

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RESULT 434
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CC surfactant depletion or hyposecretion, when administered to a mammal. The captression of a target polypeptide associated with lung airway or lung construction or cancer and can be anti-sense to the corresponding mRNA. The invention also describes a kit, that comprises: (a) a delivery constructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, consultations for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, consultations and composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the amount of target polypeptide present in the lungs. The composition, allergies and/or bronchoconstriction and/or lung confilammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vascoomstriction, and of sufficient hyporroduction are associated confilammation, allergies, asthma, impeded respiration, respiratory confilammation, emphysema, chronic obstructive pulmonary disease, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to the oligonucleotides into products that free adenosine into the system content of the anti-sense oligos corresponding to the oligonucleotides into products that free adenosine into the system content of the shift for the spiratory the breakdown of the content of the anti-sense oligos corresponding to the oligonucleotides into products that free adenosine into the system content of the spiratory the breakdown of the content of the spiratory the spiratory the breakdown of the content of the spiratory the sp
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                        gene typing; polymorphic microsatellite loci; PML; disease predisposition; microsatellite marker; prion disease; cystic fibrosis; malignant hyperthermia syndrome; metabolic disease; milk protein; hormone; transcription factor; pT7-blue-vector; sheep;
                                                                                                                                                                                                                                 09-AUG-2002; 2002DE-01036711.
                                                                                                                                                                                                                                                                                                                                                             Ovis aries.
                                                             WPI; 2004-215730/21.
                                                                                                       Geldermann
                                                                                                                                                                                       09-AUG-2002; 2002DE-01036711
                                                                                                                                                                                                                                                                           26-FEB-2004.
                                                                                                                                                                                                                                                                                                                   DE10236711-A1
                                                                                                                                                                                                                                                                                                                                                                                                       microsatellite;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADO81089;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADO81089 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                               (UYHO-) UNIV HOHENHEIM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1248
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein microsatellite locus primer #60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BP; 0 A;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                     Preuss S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%; +,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0 C; 4 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 15; DB 1; Length 20; Pred. No. 4e+02; 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16 T; 0 U; 0 Other;
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Example

Page 30; 64pp; German.

length of

amplicons

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RESULT 435
ADO81043
ID ADO810
XX ADO810
XX ADO810
XX ADO810
XX ADO810
XX GYSE1
XX GYSE1
XX GYSE1
XX GYSE1
XX MAILK
XX MAILK
XX BOS
AX DE10
XX 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention describes a method of typing (MI) a gene (I) that has one compared to the invention describes a method of typing (MI). The method comprises: PCR compared to the increase of the method comprises: PCR complate a DNA semple containing at least one segment of (I), and containing the length of the resulting amplicon(s). Also described are: compared to the containing at least one segment of (I), and compared to the resulting amplicon(s). Also described are: compared to the containing the length of the resulting amplicon(s). Also described are: compared to the compared to the containing that includes one or compared to the containing that includes one or compared to the method is used to identify microsatellite markers, in a conclude PMI. The method is used to identify microsatellite markers, in a conclude PMI. The method is used to identify microsatellite markers, in a conclude PMI. The method is suscitably prion diseases and for prediagnosis of such diseases, especially prion diseases concluded to the compared to the conclusion of the sequencing that concode milk proteins, concompared to the concode milk proteins. The method is simpler, quicker and concode concode the concode co
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Best Local
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        The invention describes a method of typing (M1) a gene (I) that has one or more polymorphic microsatellite loci (PML). The method comprises: PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 gene typing; polymorphic microsatellite loci; PML; disease predisposition; microsatellite marker; prion disease; cystic fibrosis; maliquant hyperthermia syndrome; metabolic disease; milk protein; hormone; transcription factor; pT7-blue-vector; cow;
                                                                                                                                                                                                                Typing genes that contain polymorphic microsatellite loci, useful for identifying predisposition to disease, by amplification and determining length of amplicons.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Geldermann H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bos taurus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   microsatellite; PCR; primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADO81043 standard; DNA; 20 BP
                                                                                                                                   Example 3; Page 27; 64pp; German
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        09-AUG-2002; 2002DE-01036711.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    09-AUG-2002; 2002DE-01036711.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cow prion protein microsatellite locus primer #55.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-JUL-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADO81043
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (UYHO-) UNIV HOHENHEIM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1248 TTTGTTTTGTTTTT 1262
                                                                                                                                                                                                                                                                                                                                                                                          2004-215730/21.
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
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CC amplification of at least one DNA region of (I) that includes PML, using CC as template a DNA sample containing at least one segment of (I); and CC determining the length of the resulting amplicon(s). Also described are: CC method of determining (M2) microsatellite markers (MM) for CC more PML; and prediagnosis (M3) of diseases associated with gene that includes one or CC more PML; and prediagnosis (M3) of diseases associated with gene that include some or CC disease related gene, that are associated with a prediagnosition to CC disease and for prediagnosis of such diseases, especially prion diseases CC but also cystic fibrosis, malignant hyperthermia syndrome in pigs and CC metabolic diseases; also to type genes that encode milk proteins, CC hormones or transcription factors. The method is simpler, quicker and CC particularly less expensive than known methods based on sequencing. This sequence represents a primer used to genotype a region of the cow prion CC protein (PrP) comprising a polymorphic microsatellite locus.
Sequence 20 BP; 0 A; 0 C; 3 G; 17 T; 0 U; 0 Other;
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밁 S

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RESULT 436
ACC48482/c
Query Match
Best Local S
Matches 15
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                                                                                                                                                                                                                                                                                                   ACC48482 standard;
          modified_base
                                       modified_base
                                                                  modified_base
                                                                                                                        modified_base
                                                                                                                                                    modified_base
                                                                                                                                                                               modified_base
                                                                                                                                                                                                                               Synthetic.
                                                                                                                                                                                                                                                          Locked nucleic
                                                                                                                                                                                                                                                                                      ACC48482;
                                                                                             modified_base
                                                                                                                                                                                                          modified_base
                                                                                                                                                                                                                                             Locked nucleic
                                                                                                                                                                                                                                                                                                                                                  1248
                                                                                                                                                                                                                                                                                                                                                                15;
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                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                             TTTGTTTTGTTTTTT 1262
                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                       (firet
                                                                                                                                                                                                                                                          acid anchored oligo(I) primer ON12.
              /*tag= g
/mod_base= OTHER
/note= "OTHER= 1c
                                                                                                                                                                                                                                             acid;
                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                       /*tag= u
/mod_base= OTHER
                                                                                                                                                                                     /*tag= a
/mod_base= OTHER
/note= "OTHER= locked nucleic acid"
     *tag=
                                               note=
                                                     mod.
                                                            *tag=
                                                                                 mod
                                                                                                     note=
                                                                                                                                note=
                                                                                                                                              *tag=
                                                                                                                                                                  mod.
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                                                                                        *tag=
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                                                                                                                                                                                                                                                                                                    DNA;
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                                                                                                                                                                                                                                             LNA;
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                                                     base=
                                                                                base= OTHER
                                                                                                                                base= OTHER
= "OTHER= 1
                                                                                                                                                                   base= OTHER
                                               "OTHER=
                                                                          "OTHER=
                                                                                                     "OTHER= locked nucleic
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                                                                                        Ф
                                                                                                                                                                                                                                                                                                    21
                                                                                                                                                                                                                                            gene therapy; primer; ss
                                               OTHER
HER= locked
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0; Mismatches
                                                                                                                                locked
                    locked nucleic acid'
                                                                          locked
                                                                                                                                                                                                                                                                                                                                                              DB 1; L...
0. 4e+02;
0;
                                                                                                                                                            nucleic acid'
                                                                                                                                nucleic
                                               nucleic
                                                                          nucleic
                                               acid"
                                                                                                                                acid"
                                                                          acid"
                                                                                                      acid"
                                                                                                                                                                                                                                                                                                                                                                             Length 20
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'mod\_base= OTHER

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RESULT 437
ACC99729/c
ID ACC99729 (
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                                                                                                                                                                                                                   The present sequence is that of pyrene-anchored locked nucleic acid (LNA) CC oligo(dT) primer ON12, which was used in first-strand cDNA synthesis from CC eukaryotic mRNA. It includes compound '17d' at its 3' end, which is based CC on an LNA-type 2'-0,4'-C-methylene-beta-D-ribofuranosyl moiety. It is CC one of a set of such primers (see also ACC48483-85) that were used in an CC example from the invention to demonstrate improved reverse transcription CC were observed: efficient priming on mRNAs with short poly(A) tails; CC efficient anchoring of the oligo(T) primers. The following results CC were observed: efficient priming on mRNAs with short poly(A) tails; CC units resulting in an improved T20-VN anchor primer and thus avoiding CC reverse transcription of long poly(A) tracts; and improved reverse CC transcription of eukaryotic poly(A) tracts; and improved reverse CC that comprise unique base groups. Desirable nucleobase and nucleosidic CC base substitutions can mediate universal hybridiastion when incorporated CC into nucleic acid strands. The novel LNA compounds can be used e.g. as CC End in diagraphs.
                                                                                                                         Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 24a; Page 90; 119pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             moiety, or modified nucleobase or nucleosidic base other than oxazole/imidazole.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel nucleic acid comprising a locked nucleic acid unit having a modified base that comprises an optionally substituted carbocyclic aryl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-363021/34.
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22-SEP-2001; 2001US-0323967P.
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                                                                                              1519 ТААЛАЛАЛАЛАЛАСТАЛЛА 1537
                                                                                                                                                                                                            diagnostics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         J, Kauppinen
 standard; DNA; 21 BP
                                                                    BAAAAAAAAAAAAAAA 2
                                                                                                                                                                                BP; 0 A;
                                                                                                                            Conservative
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/mod_base= OTHER
/note= "OTHER= Compound 17d"
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HER= locked
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                                                                                                                            Mismatches
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                                                                                                                                    .8e+02;
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                                                                                                                                                   Length
                                                                                                                            Indels
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ADD20377/c
ID ADD203
XX ADD203
AC ADD203
XX Bingle XW Orechr
XX Bingle XW Orechr
XX Bingle XW Orechr

15-JAN-2004 ADD20377;

(first entry)

Oreochromis niloticus microsatellite primer

SEQ ID NO:1012

single nucleotide polymorphism; SNP; fish; Salmo salar;
Orechromis niloticus; Atlantic halibut; microsatellite; cod;
polymorphic site; seabass; salmonidae; Tilapia; rainbow trout; halibut;

0377/c ADD20377

standard; DNA; 21

ВP

S

1519 TAAAAAAAAAAAAGTAAAA 1537

Matches

Similarity

84.2%;

Pred.

Conservative

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Mismatches No. 3.8e+02

<u>,,</u>

Gaps

0

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20

BAAAAAAAAAAAAAA 2

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Query Match
Best Local
                                                                               The present invention describes a multiplex real-time quantitative PCR method for determining the relative copy number of a group of target nucleic acid molecules present in a sample. The method comprises: (1) performing a first PCR in a PCR mixture; (2) performing a second PCR in a PCR mixture; and (3) quantifying the number of copies of the second PCR in a PCR mixture; and (3) quantifying the number of copies of the second PCR in a proup of target nucleic acid product present in the sample containing the target nucleic acids in a sample; and (2) determining whether a subject is at risk of acquiring Alzheimer's disease. The method is useful for determining the relative copy number of a group of target nucleic acid molecules present in a sample for determining whether a subject is at risk of acquiring Alzheimer's disease. ACC99620 to ACC99730 represent PCR primer used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                        Determining the relative copy number of a group of target nucleic acid molecules present in a sample by performing a first or second PCR in a PCR mixture and quantifying the number of copies of the second target
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Multiplex real-time quantitative PCR; PCR primer; copy number; Alzheimer's disease; ss.
                                                   Sequence 21 BP; 0 A; 0 C; 0 G; 19 T; 0 U; 2 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30-NOV-2001; 2001US-0336095P.
19-JUL-2002; 2002US-0397475P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO2003048377-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Oligonucleotide.
                                                                                                                                                                                                                                                                                                                                          Example 1;
                                                                                                                                                                                                                                                                                                                                                                         nucleic acid product.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-532841/50.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Zhu M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                02-DEC-2002; 2002WO-US038806.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 02-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACC99729;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (UYRP ) UNIV ROCHESTER. (THER/) THERIANOS S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Coleman P;
                                                                                                                                                                                                                                                                                                                                        Page 68; 118pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                1.18;
                Score 15;
                  DB 1;
                Length 21
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detection;

primer;

88

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CY The present invention describes an isolated nucleic acid (I) comprising a compile nucleotide polymorphism (SNP) chosen from: (i) a nucleic acid of CY salmo salar SNPs, Orecchromis miloticus SNPs or Atlantic halibut SNPs; CY cand (ii) a nucleic acid having nucleotide sequence that hybridises to CY (ii) or its complement under highly stringent hybridises to CY also described: (I) an isolated oligonucleotide sequence of S. salar SNPs, O. inloticus SNPs, O. niloticus microsatellites, Atlantic halibut SNPs, CO CY niloticus SNPs, O. niloticus microsatellites, Atlantic halibut SNPs, CO CY of amplifying a nucleotide sequence chosen from S. salar SNPs, CO CY of amplifying a nucleotide sequence chosen from S. salar SNPs, CO CY of amplifying a nucleotide sequence chosen from S. salar SNPs, CO CY of amplifying a nucleotide sequence chosen from S. salar SNPs, CO CY of the collection of candidate parent genotypes and, O. CY of the sample comprising providing a parentage genotype database comprising a collection of candidate parent genotype database comprising a collection of candidate parent genotype database containing the corigin of the sample. (M1) is useful for detecting nucleic acid molecule comprising SNP in a sample, which convex contacting the sample containing nucleic acid with one or more (II) which is generated from O. niloticus (SNPs, and identifying nucleic acid that hybridises to (II) (II) is useful for detecting the sample, comprising contacting the sample containing the paramale containing the paramale containing the sample containing nucleic acids with one or more (II) which is derived from O. niloticus (II) is useful for detecting mucleic acid molecule comprising a nucleic acid molecule com
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                              ঠ
                                                                           Matches
                                                                                            Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel isolated nucleic acid molecule comprising single nucleotide polymorphism associated with fish, useful for forming PCR primers which are used for detecting single nucleotide polymorphisms in fish nucleic
                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 18; SEQ ID NO 1012; 233pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-JAN-2002; 2002US-0349950P.
16-AUG-2002; 2002US-0404200P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17-JAN-2003; 2003WO-IB000112
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Oreochromis niloticus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (GENO-)
19
                                                                         l Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENOMAR ASA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Slettan A,
                                                                                                                                                       21
                                    TGCTGCCTTTGTGAC 749
                                                                                                                                                     BP; 11
                                                                                                                                                     A; 4 C; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hoyum
                                                                   100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Z,
                                                                       Score 15; DB 1; Le
; Pred. No. 3.8e+02;
...armatches 0;
                                                                                                                                                     G; 1 T; 0 U; 0 Other;
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                                                                                                                Length 21;
                                                                           0
                                                                           Gaps
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ADO81045
ID
ADO81045 standard; DNA; 21
XX
AC
ADO81045;
XX
AC
ADO81045;
XX
ADO81045;
XX
DT
29-JUL-2004 (first entry)
XX
Cow prion protein microsat
XX
gene typing; polymorphic;
XX
disease predisposition; mi
XX
disease predisposition; malignant
XX
W gene typing; polymorphic; tr
XX
Gene typing; polymorphic; mi
XX
W gene typing; polymorphic; mi
XX
Bos taurus.
XX
DE10236711-A1.
XX
DE10236711-A1.
XX
O9-AUG-2002; 2002DE-01036
XX
OPT
DE10236711-A1.
XX
PPI
Celdermann H, Preuss S,
XX
PPI
Geldermann H, Preuss S,
XX
PPI
Geldermann H, Preuss S,
XX
Typing genes that contain
PT identifying predisposition
PT identifying predisposition
YX
Typing genes that contain
PT identifying predisposition
YX
Typing genes that contain
PT identifying predisposition
PT identifying predisposition
YX
Complete of amplicons.
XX
Complification of at least
CC amplification of at least
CC determining the length of
CC determining the length of
CC disease and for prediagnos
CC disease
BXAXB
                                                                                                                                                             ABK12409/c
                                                                                                                                                                                                  RESULT 440
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                                                                                                                                                                                                                                                                                                                                                     Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention describes a method of typing (M1) a gene (I) that has one cor more polymorphic microsatellite loci (PMI). The method comprises: PCR amplification of at least one DNA region of (I) that includes PML, using as template a DNA sample containing at least one segment of (I); and determining the length of the resulting amplicon(s). Also described are: a method of determining (M2) microsatellite markers (MM) for core PML; and prediagnosis (M3) of diseases associated with a gene that includes one or include PML. The method is used to identify microsatellite markers; in a disease related gene, that are associated with a prediagnosition to diseases and for prediagnosis of such diseases, especially prion diseases but also cystic fibrosis, malignant hyperthermia syndrome in pigs and metabolic diseases; also to type genes that encode milk proteins, thormones or transcription factors. The method is simpler, quicker and comparison or transcription factors. The method based on sequencing. This sequence represents a primer used to genotype a region of the cow prion comprising a polymorphic microsatellite locus.
                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    disease predisposition; microsatellite marker; prion disease; cystic fibrosis; malignant hyperthermia syndrome; metabolic disease; milk protein; hormone; transcription factor; pT7-blue-vector; cow;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Typing genes that contain polymorphic microsatellite loci, useful for identifying predisposition to disease, by amplification and determining length of amplicons.
   18-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        microsatellite; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   gene typing; polymorphic microsatellite loci; PML;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cow prion protein microsatellite locus primer
                                                                ABK12409;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 21 BP; 0 A; 0 C; 3 G; 17 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 3; Page 27; 64pp; German
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       09-AUG-2002; 2002DE-01036711.
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                                                                                                                                 ABK12409
                                                                                                                                                                                                                                                                                                                                1248 TITGTTTTGTTTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                     standard;
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   (first entry)
                                                                                                                                 DNA;
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                                                                                                                                                                                                                                                                                                                                                               1262
                                                                                                                                     ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 15; DB 1; 1
Pred. No. 3.8e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 21
                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                   0
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0

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RESULT 441
AAQ34110
AAQ3411
XX
AAQ341
XX
AAQ341
XX
25-MAR
DT 25-MAR
DT 02-FEB
XX
PCR; e
KW PCR; e
KW geneti
XX
W geneti
XX
W W09213
XX
PN W09213
XX
PN W09213
XX
PN W15-JAN
XX
PR 15-JAN
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to the isolation of polypeptide-laminin B210.67, and the polynucleotide encoding it. Also described is the process for preparing the protein by DNA recombination. The polypeptide is useful for treating diseases such as embryo development teratogenesis. The present sequence for reverse transcriptase (RT)-PCR primer #1 is used with RT-PCR primer #2 (ABK12410) for isolating cDNA encoding polypeptide-laminin B210.67
Georges M,
                                                                                                                                                                                                                                                                                                                 Bos taurus.
                                                                                                                                                                                                                                                                                                                                                               PCR; selection; primers; OPTIPRIM; breeding; cattle; parentage; genetic mapping; traits; amplification; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence of a microsatellite from clone TGLA60B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-MAR-2003
02-FEB-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAQ34110 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2002-270054/32
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                                                                                                     15-JAN-1991;
                                                                                                                                                                                                                                                              WO9213102-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAQ34110,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Polypeptide-laminin B210.67, useful for treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14-JUN-2000; 2000CN-00116514
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                                                                                                                                                        15-JAN-1992;
                                                                                                                                                                                                           06-AUG-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RT-PCR primer #1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (BODE-) BODE GENE
                                                     (GENM-) GENMARK.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1248
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2; Page 18 (disclosure); 33pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTTGTTTTGTTTTTTAATCAGAT 1270
     маввеу JM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  teratogenesis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (revised)
(first entry)
                                                                                                        91US-00642342
                                                                                                                                                        92WO-US000340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        for cDNA encoding polypeptide-laminin B210.67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DEV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          B210.67; embryo development teratogenesis; transcriptase-PCR; RT-PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CO LTD SHANGHAI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
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Pred. No. 3.3e+02;
0; Mismatches 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            diseases such
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
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8
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RESULT 442
AAQ75025/c
ID AAQ75025/c
AC AAQ750
XX AAQ750
XX 25-MAR
DT 25-MAR
DT 03-AUG
XX Synthe
XX Synthe
XX W09426
XX W09426
XX W09426
XX I3-MAY
XX I3-MAY
XX I3-MAY
XX PH 13-MAY
XX PH 13-MAY
XX Solid
PT Conjug
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       specification and indexed herein (see below). The sequences upstream and downstream of the microsatellite sequence were used to generate the required PCR primers for in vitro amplification of the corresp. microsatellite (using the program OPTIPRIM). The microsatellites may be used to identify individuals, for parentage testing, and in the genetic mapping of economic trait loci, or genes involved the determinism of economically important trait esp. in cattle, to allow selective breeding. See also AAQ33501-34437. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The sequence is that of a bovine microsatellite sequence obtd. by screening a library of bovine Mool DNA fragments of between 250 and 500 bp with an (AC)15 and a (TC)15 oligonucleotide probe. One out of 50 clones cross-hybridised. Assuming independent distribution of microsatellites and Mool sites, the frequency of (T6)n >9 microsatellites in the bovine genome is estimated at >100, 000. The sequence information for ca. 230 such bovine microsatellites is summarised in the
                                                                                                                 Solid phase immunoassay using oligo:nucleotide as label - also new conjugates of oligo:nucleotide coupled to antigenic peptide, partic. diagnosing hepatitis C or E virus infection.
                                                                                                                                                                                                                                                                                                                                                                                                13-MAY-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic oligo;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    25-MAR-2003
03-AUG-1995
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  AAR62941 and AAR62942 are examples of synthetic immunoreactive peptides They are used in a method for detecting an antigen in a subject. The
                                                                   Example; Page 12; 34pp; English.
                                                                                                                                                                                                                WPI; 1995-006819/01.
                                                                                                                                                                                                                                                                                                                                                     13-MAY-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   24-NOV-1994.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PCR primer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAQ75025 standard; RNA; 18 BP
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                                                                                                                                                                                                                                                                                                       (USSH ) US DEPT HEALTH & HUMAN
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                                                                                                                                                                                                                                                         HA,
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                                                                                                                                                                                                                                                         Khudyakov
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (revised)
(first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                   94WO-US005407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        solid phase immunoassay; ss.
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Pred. No. 4.9e
O; Mismatches
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XX Plavon
KW Plavon
KW Plavon
KW Bnapdr
XX Synthe
PN WO9732
XX 28-FEB
XX 1-MAR
XX 1-MAR
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XX NOVE1
DR WPI; 1
XX NOVE1
DR WPI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
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Best Local
                                                                                                      Anchored poly(T) oligonucleotides polyT-anchA (AAT94667), polyT-anchC (AAT94668) and polyT-anchG (AAT94669) are complementary to the upstream region of a polyadenylation sequence. They were used to prime cDNA synthesis from snapdragon (Antirrhinum majus) petal and leaf RNA, and were also utilised in the PCR amplification of plant cytochrome P450 sequences (see also AAT94670-73). A DNA clone (see AAT94657) encoding flavonoid 3' hydroxylase (see AAW35704) was isolated using a differential display approach. This can be used to manipulate the pigmentation of
                                                                                                                                                                                                                                                                                                                                                                                                                               Example 15; Page 59; 234pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel flavonoid 3'-hydroxylase(s) from flows corresponding DNA, used in the manipulation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1997-448691/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Brugliera F,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         snapdragon;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Flavonoid 3' hydroxylase; pigmentation; flower colour; transgenic plant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Anchored poly(T) oligonucleotide polyT-AnchA.
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16; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FLORIGENE LTD.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         primer; ss.
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Pred. No. 4
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                                                                                                                                                                                                                    gene. Also described is a gene comprising a cDNA sequence encoding maize belta-9 desaturase. (I) can be used to modulate expression of a gene, preferably Delta-9 desaturase or a granule bound starch synthase (GBSS) gene, in a plant (preferably a maize or canola plant). (I) can be used to modulate caffeine synthesis in a coffee plant, nicotine production in a tobacco plant, flower pigmentation in a rose, petunia, chrysanthemum or peach plant or lignin production in a tobacco, aspen, poplar or pine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Zwick MG,
Young SA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Maize; corn; Zea mays; delta-9 desaturase; GBSS; target; granule bound starch synthase; hammerhead ribozyme; hair; modulation; gene expression; transgenic plant; cleavage; caffeine synthesis; coffee plant; nicotine production; to
                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention describes an enzymatic nucleic acid molecule with RNA cleaving activity, which modulates the expression of a pla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 40; Page 93; 155pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ribozyme which modulates plant gene expression of DELTA-9 desaturase or
                                                                                                                                                 Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1997-202224/18
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  430 GCTGCGGCGCCGGCGACG
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                                                                               Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1.1%;
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                                                                          1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mcswiggen of Merlo DJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Merlo
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                                                   0;
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       447
                                                                            Score
Pred.
                                                                                                                                                    G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.8; DB 1;
Pred. No. 4.9e+02;
                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                            No.
                                                                                                      14.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          expression - preferably modula granule bound starch synthase
                                                                            4.9e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Merlo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PAO,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      preferably modulates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   target; substrate;
                                                                                                   Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 18;
                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ID NO:1167.
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G
G
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                canola plant;
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                                                          Gaps
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RESULT 445
AAX63294/c
ID AAX632
XX AAX632
XX Delta-
XX Maize;
KW Maize;
KW Granul
KW modula
KW caffei
KW fruit
XX Zea ma
XX 12-JUI
XX HIBO.
PA (DOWC
XX Zwick
PI Young
XX WPI;
XX Zwick
PI Young
XX Claim
RESULT 446
AAV21970/c
ID AAV219
XX
AC AAV219
XX
AC AAV219
XX
AC AAV219
XX
XX
DT 14-JUL
XX
DE Nuclea
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                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention describes an enzymatic nucleic acid molecule (I) with RNA cleaving activity, which modulates the expression of a plant gene. Also described is a gene comprising a cDNA sequence encoding maize Delta-9 desaturase. (I) can be used to modulate expression of a gene, preferably Delta-9 desaturase or a granule bound starch synthase (GBSS) gene, in a plant (preferably a maize or canda plant). (I) can be used to modulate caffeine synthesis in a coffee plant, nicotine production in a tobacco plant, flower pigmentation in a rose, petunia, chrysanthemum or marigold plant or lignin production in a tobacco, aspen, poplar or pine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Zwick MG,
Young SA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ribozyme which modulates plant gene expression - pexpression of DELTA-9 desaturase or granule bound maize or canola.
                            Nuclease resistant antisense oligo
                                                                                 14-JUL-1998
                                                                                                                                       AAV21970
                                                                                                                                                                                         AAV21970 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 40; Page 93; 155pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Maize; corn; Zea mays; delta 9 deaaturase; GBSS; target; substrate; granule bound starch synthase; hammerhead ribozyme; hairpin ribozyme; modulation; gene expression; transgenic plant; cleavage; canola plant; caffeine synthesis; coffee plant; nicotine production; tobacco;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO9710328-A2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13-JUL-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12-JUL-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-MAR-1997.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    fruit ripening; flower pigmentation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local
                                                                                                                                                                                                                                                                                                                                                                                   427
                                                                                                                                                                                                                                                                                                                                                                                                                                     al Similarity
16; Conserv
                                                                                                                                                                                                                                                                                                                             18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DOWELANCO.
                                                                                                                                                                                                                                                                                                                                                                             ccecrececccece 444
                                                                                                                                                                                                                                                                                                                             GCTGCTGCGGCGGCGGCG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Edington BE, Folkerts O,
                                                                                                                                                                                                                                                                                                                                                                                                                                   1.1%;
ilarity 88.9%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 2
                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 95US-0001135P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10 C; 6
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Merlo DJ;
                                                                                                                                                                                                                                                                                                                                                                                                                             0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 14.8;
Pred. No. 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                              NBT
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                              ü
                                                                                                                                                                                                                                                                                                                                                                                                                                                               4.9e+02
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                            targeted against
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 1;

    preferably modulates
und starch synthase in

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
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RESULT 447
AAX19943/C
ID- AAX199
XX
AC AAX199
XX
DT 14-JUN
XX
DE Primer
XX
CX
XX
OS Synthe
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Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    method is used to treat infections by a wide variety of Gram-positive and Gram-negative, or acid-fast, bacteria, in human and veterinary medicine. The methods are particularly used in immuno-compromised individuals (e.g. patients with acquired immunodeficiency syndrome or those receiving chemotherapy or radiation therapy), optionally in combination with, or fused to, antiviral or other antimicrobial oligonucleotides. Apart from therapeutic use, the oligonucleotides can be used to control bacteria in laboratory cultures, foods, beverages and industrial processes. The oligonucleotides are specific for bacteria, without affecting metabolism in mammalian cells. They may also activate RNase H and have a general, non-specific immune-stimulating effect. The oligonucleotides can be administered orally, intranasally, rectally, topically or by injection, optionally coupled to an agent (e.g. carbohydrate or polyamine) that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This antisense oligonucleotide is nuclease resistant and can be used in the treatment of animals, including humans, having a bacterial infection. The treatment comprises administration of such nuclease resistant oligonucleotides, targeted to a nucleic acid or protein of the bacterium, and formulated with a carrier. A compound comprising this nuclease resistant oligonucleotide can be covalently linked to an antibiotic. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Treating bacterial infections in humans or animals with oligo:nucleotide(s) - resistant to nuclease and targetted to bacterial nucleic acid or proteins, also conjugates of these oligo:nucleotide(s)
                                                                                                                                                                                                                                                                                           AAX19943 standard; DNA; 18
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                         Synthetic
                                                                             Primer; oligonucleotide; labelling; detection; self-priming; PCR;
                                                                                                                                  Primer
                                                                                                                                                                                    14-JUN-1999
                                                                                                                                                                                                                                         AAX19943;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 18 BP; 0 A; 0 C; 0 G; 18 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1998-120687/11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Arrow A,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1520 AAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                 18 AAAAAAAAAAAAAAAA
                                                                                                                               SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OLIGOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cellular uptake
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Page 87; 163pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                    (first entry)
                                                                                                                               NO:3 from JP11075880.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           96US-00685575.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.8; DB 1
Pred. No. 4.9e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
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RESULT 448
AAX19942
ID AAX199
XX AAX199
XX Primer
AC Primer
XX Primer
XX Primer
XX Synthe
OS Synthe
PN JP1107
XX JP1
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Best Local 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A method has been developed for labelling an oligonucleotide having a repeated sequence of (XY)n (where X and Y consists of a combination of adenine and thymine or uracil or guantine and cytosine, and n is an integer of 1 or more) at the 3' terminal side in which the repeated sequence is added and extended using a labelled body of the nucleotide constituting the repeated sequence and a DNA polymerase lacked in 5' to 3' exonuclease activity. The method can be used for detecting a gene. The method can detect a gene in a sensitivity up to ten times higher than prior art methods. The present sequence represents a primer used in an example from the present invention
     A method has been developed for labelling an oligonucleotide having a repeated sequence of (XX)n (where X and Y consists of a combination adenine and thymine or uracil or guanine and cytosine, and n is an integer of 1 or more ) at the 3'-terminal side in which the repeated sequence is added and extended using a labelled body of the nucleotic
                                                                                                                                                                               Example 1;
                                                                                                                                                                                                                                                                                                WPI; 1999-257710/22.
                                                                                                                                                                                                                                                                                                                                                                                                             14-JUL-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10-JUL-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JP11075880-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Primer; oligonucleotide; labelling; detection; self-priming; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Primer SEQ ID NO:2 from JP11075880
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Labelling of an oligonucleotide -
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                                                                                                                                                                                                                                                                                                                                                     (KAGA ) ZH KAGAKU & KESSEI RYOHO KENKYUSHO.
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                                                                                                                                                                                                                                    of an oligonucleotide -
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                                                                                                                                                                               Page 7; 10pp; Japanese
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Pred. No. 4.9e+02;
                                                                                                                                                                                                                                       useful
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                                                                                                                                                                                                                                    detecting genes.
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                                                                                                                                                                                                                                                                                      This sequence represents a primer of the invention. The invention relates to sequences of at least two nucleotides of formula: (X)m5'-(alpha)n-beta -N3'; or (X)m5'-(alpha)n-beta and/or a nucleotide with voluntary sequence; m = 0 or 1; albha = thymine; n = natural number indicating the repetition of alpha; beta, delta = V or N; V = adenine, guanine or cytosine; N = adenine, guanine or thymine; N = adenine, guanine or thymine; N = natural number of 3 or over indicating the repetition of gamma, in which thymine expressed by gamma is composed of 1/3 or less of adenine, guanine and/or cytosine. The new nucleotides are useful as primers for RT-PCR and determination of base sequences. The new sequences allow for reproductive and highly efficient analysis of gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   constituting the repeated sequence and a DNA polymerase lacked in 3' exomuclease activity. The method can be used for detecting a gmethod can detect a gene in a sensitivity up to ten times higher prior art methods. The present sequence represents a primer used example from the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Peptides having at least two new nucleotides - useful as primers in \ensuremath{\text{PCR}}\xspace .
                                                                                                                                                                                                                Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Page 11; 19pp; Japanese.
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                                               1514 ТТААТТАААААААААА 1531
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18
                                                                                                                                    Similarity
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                                                                                                                                                                                                                  A; 0 C; 0
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Pred. No. 4.9e+02;
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Pred. No. 4.9e+02;
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be used for detecting a go
                                                                                                                                                                DB 1;
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                                                                                                                                                             Length 18;
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                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a new composition for selective, sequence-
specific inhibition of gene transcription and expression in a host. The
composition composites oligonucleotides containing arabinose sugars that
can hybridise to either a single-stranded (ss) RNA to induce RNase H
cleavage activity, or to a DNA/DNA or DNA/RNA duplex to form a triple
helix, thereby inhibiting DNA replication and/or transcription. The
oligoarabinonucleotides are used for antisense inhibition of gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Beta-D-arabinose; antisense; inhibition; transcription; expression; reverse transcription; viral replication; RNase H cleavage; triple helix formation; ss.
                                                                                                                                                                                                                                                                                                                                                                                        expression or to prevent DNA replication, or reverse transcription of RNA by retroviruses. The compositions are therefore particularly used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Damha MJ, Parniak MA,
                                                                                                                                 Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 1, Page 29; 91pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Therapeutic composition containing antisense oligonucleotides that include arabinose sugars, particularly for inhibiting viral replication.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-JUN-1998;
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                                                                                                                                                                exemplification of the present invention
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/note= "Ribose moiety replaced by beta-D-arabinose'
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                                                                                                                                  A; 0 C; 0 G; 0 T; 0 U;
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                                                               Score 14.8; DB 1
Pred. No. 4.9e+02
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                                                                                                                                                                                                  composition comprises oligonucleotides containing arabinose sugars that CC cleavage activity, or to a DNA/DNA or DNA/RNA duplex to foom a triple CC oligoarabinonucleotides a DNA/DNA or DNA/RNA duplex to foom a triple CC oligoarabinonucleotides are used for antisense inhibition of gene CC expression or to prevent DNA replication, or reverse transcription. The CC by retroviruses. The compositions are therefore particularly used to inhibit retroviral replication. The oligoarabinonucleotides can also be used, in combination with RNAse H, as reagents for sequence specific cleavage or RNA mapping, and additionally for the study and control of gene expression in cells. The oligoarabinonucleotides can also be CC affinity for RNA, increased resistance to nucleases and show little if CC any non-specific binding to cellular or serum proteins. They target 8s CC RNA, but not complementary 8s DNA, so may be useful for targetting crtroviral genomic RNA to inhibit the early stages of viral replication. CO oligoarabinonucleotides containing pyrimidine bases form triple helices with significantly higher thermal stability than those produced by normal coligoarabinonucleotides containing beta-D-arabinose used in an CC exemplification of the present invention
                                                        Matches
                                                                                 Query Match
Best Local (
                                                                                                                                                                         Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to a new composition for selective,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 1; Page 29; 91pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Therapeutic composition containing antisense oligonucleotides that include arabinose sugars, particularly for inhibiting viral replication.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2000-160584/14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Damha MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-DEC-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          W09967378-A3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 triple helix formation; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Beta-D-arabinose; antisense; reverse transcription; viral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Oligoarabinonucleotide SEQ ID NO:3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    08-MAY-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (UYMC-) UNIV MCGILL.
1520 AAAAAAAAAAAAGTAAAA 1537
                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Parniak MA,
                                                                                                                                                                         BP; 0 A; 0 C; 0 G; 0 T; 18 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           98CA-02241361
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/*tag= a
/note= "Ribose moiety replaced by beta-D-arabinose"
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                                                                                    1.1%;
88.9%;
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                                                     ٥,
                                                                                                                Score 14.8;
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replication; RNase H cleavage;
                                                                                       Pred.
                                                        Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Wilds C,
                                                                                 4.9e+02;
                                                                                                                DB 1; Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Borkow G,
                                                           Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Arion
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                                                        Gaps
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RESULT 452
AAZ87166/c
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                                                                                                                  CC emposition inhibition of gene transcription and expression in a host. The C composition comprises oligonucleotides containing arabinose sugars that CC can hybridise to either a a single-stranded (ss) RNA to induce RNase H CC cleavage activity, or to a DNA/DNA or DNA/RNA duplex to form a triple CC helix, thereby inhibiting DNA replication and/or transcription. The CC oligoarabinonucleotides are used for antisense inhibition of gene CC expression or to prevent DNA replication, or reverse transcription of RNA CC by retroviruses. The compositions are therefore particularly used to composition in the replication. The oligoarabinonucleotides can also be CC used, in combination with RNase H, as reagents for sequence-specific CC cleavage or RNA mapping, and additionally for the study and control of gene expression in cells. The oligoarabinonucleotides have excellent CC affainly for RNA, increased resistance to nucleases and show little if CC any non-specific binding to cellular or serum proteins. They target ss CC with significantly higher thermal stability than those produced by normal CC oligoarabinonucleotides containing pyrimidine bases form triple helices with significantly higher thermal stability than those produced by normal CC oligonucleotides. Sequences AAZ87165-Z87169 represent invention

OCC arabinose used in an exemplification of the present invention
                                               Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2'-deoxy-2'-fluoro-beta-D-arabinose; antisense; inhibition; transcription; expression; reverse transcription; viral replication; RNase H cleavage; triple helix formation; ss.
                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a new composition for selective,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 2; Page 31; 91pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Therapeutic composition containing antisense oligonucleotides that include arabinose sugars, particularly for inhibiting viral replication
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2000-160584/14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Damha MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19-JUN-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29-DEC-1999.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Deoxyarabinonucleotide SEQ ID NO:7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08-MAY-2000
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1520 AAAAAAAAAAAAAGTAAAA 1537
                                               1.1%;
l Similarity 88.9%;
16; Conservative
                                                                                                                  18
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                                                                                                                BP;
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fluoro-beta-D-arabinose"
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                                                                                                                A;
                                                                                                                0 C; 0 G;
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                                               Score 14.8; Di
Pred. No. 4.9e
0; Mismatches
                                                   ..
                                                                                                                  18
                                                                                                                T; 0 U; 0 Other;
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                                                               4.9e+02
                                                                              DB 1; Length 18;
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                                                 Indels
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                                                   Gaps
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Matches

Conservative

1.1%;

Score 14.8; Di Pred. No. 4.9e 0; Mismatches

4.9e+02

DB 1; 2

Length 18; Indels

0

Gaps

0;

Best Local Similarity

Sequence 18

BP;

18 A; 0 C; 0 G; 0 T; 0 U; 0 Other;

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RESULT 453
AAZ87167
ID AAZ871
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                                                                 composition comprises oligonucleotides containing arabinose sugars that can hybridise to either a single-stranded (ss) RNA to induce RNase H cleavage activity, or to a DNA/DNA or DNA/RNA duplex to form a triple helix, thereby inhibiting DNA replication and/or transcription. The coligoarabinonucleotides are used for antisense inhibition of gene expression or to prevent DNA replication, or reverse transcription of RNA by retroviruses. The compositions are therefore particularly used to inhibit retroviruses. The compositions are therefore particularly used to used, in combination with RNase H, as reagents for sequence-specific cleavage or RNA mapping, and additionally for the study and control of gene expression in cells. The oligoarabinonucleotides have excellent affinity for RNA, increased resistance to nucleases and show little if any non-specific binding to cellular or serum proteins. They target ser RNA, but not complementary ss DNA, so may be useful for targetting retroviral genomic RNA to inhibit the early stages of viral replication. Oligoarabinonucleotides containing pyrimidine bases form triple helices with significantly higher thermal stability than those produced by normal clicked exceptions. Sequences AAA87165-287139 represent
                                 oligodeoxyarabinonucleotides containing 2'-deoxy-2's arabinose used in an exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          transcription; expression; reverse transcription; viral replication; RNase H cleavage; triple helix formation; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a new composition for selective,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 2; Page 31; 91pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Therapeutic composition containing antisense oligonucleotides that include arabinose sugars, particularly for inhibiting viral replications.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2000-160584/14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Damha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         19-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17-JUN-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2'-deoxy-2'-fluoro-beta-D-arabinose; antisense; inhibition;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Deoxyarabinonucleotide SEQ ID NO:8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAZ87167;
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                                                                                                                                                                                                                                                                                                                                                                                                                    ntion relates to a new composition for selective, sequence-inhibition of gene transcription and expression in a host.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Parniak MA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98CA-02241361
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/note= "Deoxyribose moiety replaced by 2'-deoxy-2'-
fluoro-beta-D-arabinose"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Noronha AM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ВÞ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Wilds C,
                                                         2'-deoxy-2'fluoro-beta-D-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Borkow
                                   invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   viral replication
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RESULT 454
AAA92570/c
ID AAA925
XX AAA925
XX AAA925
XX AAA925
XX AAT18e
XX AT18e
XX AT18e
XX Synthe
XX Synthe
XX US6107
XX Synthe
XX US6107
XX 29-MAI
XX 29-MAI
XX 29-MAI
XX COWBEI
XX HEROI
PR 29-MAI
XX ANT186
PR 29-MAI
XX ANT1
RESULT 455
AAD03565/c
ID AAD035
XX
AC AAD035
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AC AAD035
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XX
ID 19-JUN
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                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present sequence is one of a large number of antisense oligonucleotides which is directed against one of four human steroid receptor RNA activator (SRA) nucleic acid sequences. Two series of antisense oligonucleotides were synthesised. The first series comprised 8-30 oligodeoxynucleotides with a phosphorothioate backbone. The second series comprised chimeric oligonucleotides composed of a central gap region, consisting of ten 2'-deoxynucleotides, which was flanked on both sides by four-nucleotide wings. The wings were composed of 2'-methoxyethyl (2'-MOE) nucleotides. Both series contained the same nucleotide sequences. The antisense compounds are useful for research, inflammation or tumour formation. Therapeutically the oligonucleotides are highly safe and are effectively administered to humans
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Antisense compounds targeted to steroid receptor RNA activator useful for diagnosis, prophylaxis and treatment of diseases associated with the steroid activator, such as infection, inflammation or tumor formation.
      19-JUN-2001
                                                                                                                       AAD03565 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cowsert LM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Antisense oligonucleotide ISIS# 30280.
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                                                             AAD03565;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       22-AUG-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (ISIS-) ISIS PHARM INC.
(BAYU) BAYLOR COLLEGE MEDICINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     inhibitor;
                                                                                                                                                                                                                                                                                                                             1489
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                                                                                                                                                                                                                                                                      18
                                                                                                                                                                                                                                                                                                                                                                                       16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                          ATACATTAATTGCAGAAA 1506
                                                                                                                                                                                                                                                                      AAAGATTAATTGCAGAAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAAAAAAAAAAAAAAAA 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               steroid receptor RNA activator; cytostatic; antiinflammatory;
or; cancer; infection; antisense oligonucleotide; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Col 41; 47pp; English.
                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bennett CF, O'malley BW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
      (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                               1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3 C; 1 G; 10 T; 0 U;
                                                                                                                          ВÞ
                                                                                                                                                                                                                                                                                                                                                                                    Score 14.8; D
Pred. No. 4.9e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                    0:
                                                                                                                                                                                                                                                                                                                                                                                                                  4.9e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1; Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0 Other;
                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                                                                    Gaps
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RESULT 456 AAD17014 ID AAD170

AAD17014 standard; DNA; 18 BP

밁 S

18

Matches Query Match Best Local :

16;

Conservative

<u>,</u>

Similarity

88.9%;

1.1%;

Score 14.8; Pred. No. 4 Mismatches

4.9e+02; DB 1;

Length 18; Indels

0

Gaps

0

1520 AAAAAAAAAAAAGTAAAA 1537

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failure, renal glucostria, renal infarction, nephrogenic diabetes
insipidus, polycystic kidney disease, hereditary nephritis and
inflammatory diseases such as asthma, autoimmune diabetes, tumour
angiogenesis, rheumatoid arthritis, osteoarthritis, toxic shock syndrome,
asthma, stroke, neural trauma, psoriasis, cerebral malaria, osteoporosis,
crohn's disease, ulcerative colitis, Alzheimer's disease. Secreted
protein DNA is useful in antisense-mediated gene inhibition and in gene
therapy. An array comprising one or more oligonucleotides complementary
to reference RNA or DNA encoding the secreted factor is useful for
detecting cardiac, kidney and inflammatory disease. The present DNA
sequence is an oligonucleotide which is used in the preparation of a
normalised cDNA library containing secreted factor DNAs. The normalised
cDNA libraries are used in the identification of differentially expressed
rat secreted factor P00188_D12 gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                antiarrhythmic; antiarteriosclerotīc; antiatherosclerotic; nephropathic; antidiabetic; immunosuppressive; antiasthmatic; antirheumatoid; antibacterial; osteopathic; cerebroprotective; vasotropic; antiulcer; nootropic; neuroprotective; congestive heart failure; myocarditis; hypertrophic cardiomyopathy; angina pectoris; myocardial infarction; kidney disease; acute renal failure; renal glucosuria; renal infarction; polycystic kidney disease; hereditary nephritis; inflammatory disease; tumour angiogenesis; osteoarthritis; toxic shock syndrome; psoriasis; stroke; neural trauma; cerebral malaria; Crohn's disease; osteoporosis; ulcerative colitis; Alzheimer's disease; gene therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                              The patent discloses novel secreted factor protein encoded by clone p00188_D12. The secreted factor is differentially expressed in certain disease states. Secreted protein, its antibodies, antagonists or compositions comprising them are useful in the disagnosis and treatment cardiac diseases such as congestive heart failure, myocarditis, hypertrophic cardiomyopathy, angina pectoris, myocardial infarction, cardiac arrhythmia, arteriosclerosis, kidney diseases such as acute ren
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel secreted factor encoded by clone P00188D12 which is differentially expressed in certain disease states, useful in diagnosing and treating cardiac, renal or inflammatory diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Rat; secreted factor; clone P00188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Oligonucleotide #6 used for the preparation of normalised cDNA libraries.
Sequence 18 BP; 0 A; 0 C; 0 G; 18 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 1; Page 42; 71pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Stanton LW, Kapoun
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               27-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27-SEP-2000; 2000WO-US026544.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               05-APR-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200123564-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rattus norvegicus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99US-0156280P.
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                                                                                                                                                                                                                                                                                                                                                                                     renal
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RESULT 457
AAF99708/c
ID AAF997
XX
AAF997
XX
AC AAF997
XX
DT 12-JUN
XX
Immuno
XX
KW Vaccin
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                                                                                                                                                                                                    გ
                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                             Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                     The present invention relates to an array of proteins (antibody mimics) comprising a fibronectin type III domain having a randomised loop, a randomised beta-sheet, or their combination, and has the capacity to bind to a compound that is not bound by a corresponding naturally-occurring fibronectin, immobilised onto a solid support. The antibody mimics is useful for detecting a compound preferably a protein, in a biological sample. It is also useful to detect one or more different analytes simultaneously in a sample. Hence is useful for diagnostic purposes. It is also useful for the purpose of designing proteins capable of binding to virtually any compound of interest. The present sequence is an oligonucleotide Al8-2PEG linker used in an exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Fibronectin scaffold protein array for obtaining a protein/compound which binds to a compound/protein, comprises a fibronectin type III domain having a randomized loop, a randomized beta-sheet or their combination.
                         Immunostimulatory nucleic acid #824.
                                                      12-JUN-2001
                                                                                AAF99708;
                                                                                                          AAF99708
                                                                                                                                                                                                                                                                                    Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Lipovsek D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-FEB-2000; 2000US-00515260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28-FEB-2001; 2001WO-US006414
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Scaffold protein; antibody mimic; fibronectin type randomised loop; randomised beta-sheet; diagnostic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Oligonucleotide A18-2PEG linker.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-NOV-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (PHYL-) PHYLOS INC
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                                                                                                                                                                             μ
                                                                                                                                                                                                                                16;
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                                                                                                          standard;
                                                                                                                                                                             AAAAAAAAAAAAAAAA 18
                                                                                                                                                                                                      AAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Page
                                                                                                                                                                                                                                                                                    BP;
                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Wagner RW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                     (first entry)
                                                                                                                                                                                                                                                                                    18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /note= "Linked to (PEG)2CCPuromycin"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25; 67pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /*tag=
                                                                                                          DNA;
                                                                                                                                                                                                                                                                                    A; 0 C; 0
                                                                                                                                                                                                                                             1.1%;
                                                                                                           18
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(၁
                                                                                                                                                                                                                                             Score 14.8; DB 1;
Pred. No. 4.9e+02;
                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                    T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RG;
                                                                                                                                                                                                                                                                                    0 Other;
                                                                                                                                                                                                                                                         Length 18;
                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     purpose;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 III domain;
                                                                                                                                                                                                                               0
                                                                                                                                                                                                                                Gaps
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Vaccine; cytostatic;

virucidal; bactericidal;

fungicidal; anti-parasitic;

WO200122972-A2

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RESULT 458
AAF99734/c
ID AAF997
XX AAF997
XX AAF997
XX AAF997
XX Immuno
XX Vaccin
KW immuno
KW immuno
KW infect
XX Vacsy
Synthe
XX YX
PN WO2001
XX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-SEP-1999;
27-SEP-1999;
23-AUG-2000; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention relates to a method for stimulating an immune response. The method comprises administering an immunostimulatory nucleic acid to a non-rodent subject in sufficient quantity to stimulate an immune response. The present sequence is one such immunostimulatory nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich (py-rich) or thymidine (T) rich The method is used to vaccinate subjects against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma, haemophilus, campylobacter, clostridium, Escherichia coli and/or staphylococcus), fungal antigens and/or parasitic antigens. The method is also useful for preventing cancer, asthma, infectious disease, allergy or immune deficiency. The present sequence can also be used to redirect a Th2 to a Th1 immune response and to activate immune cells. Note: the present sequence may have a phosphorothioate backbone
                                                                                                                                 Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic; immunostimulatory; tumour; viral infection; bacterial infection; fungal infection; parasitic infection; cancer; asthma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       immunostimulatory; tumour; viral infection; bacterial infection;
fungal infection; parasitic infection; cancer; asthma;
infectious disease; allergy; immune deficiency; phosphorothioate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Vaccinating against tumors, infectious diseases, allergies using immunostimulatory Py-rich and TG nucleic acids.
                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                          AAF99734;
                                                                                                                                                                                                                                                                                                                                                                    AAF99734 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2001-273485/28.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Krieg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25-SEP-2000; 2000WO-US026383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          05-APR-2001.
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                                                                                                                 infectious
                                                                                                                                                                                                                                Immunostimulatory nucleic acid #850.
                                                                                                                                                                                                                                                                             12-JUN-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1520 AAAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ARARARARARARARARA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Page 56; 338pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Schetter C,
                                                                                                                 disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; 99US-0156113P.
; 99US-0156135P.
; 2000US-0227436P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 0 A; 0 C; 0 G; 18 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                       DNA; 18
                                                                                                                 allergy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1.1%;
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                                                                                                                                                                                                                                                                                                                                                                       ВÞ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                                 immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 14.8;
Pred. No. 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
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                                                                                                                 deficiency; phosphorothicate;
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밁 S

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AAF82472/C
ID AAF824
XX AAF824
XX AAF824
XX Phagem
XX Synthe
XX 27-SEF
XX 27-SEF
PR 27-SEF
PR 27-SEF
PR (SCIO-
XX Stanto
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
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    Stanton LW,
                                                                                                                                                                                                                                                                              Phagemid vector; pCR2.1; rat; secreted factor; P00210D09; cardiant; nephrotropic; antiinflammatory; gene therapy; cardiac disease; renal disease; inflammatory disease; polylinker; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAF82472 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 18 BP; 0 A; 0 C; 0 G; 18 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          immune deficiency. The present sequence can also be used to redirect a Th2 to a Th1 immune response and to activate immune cells. Note: the present sequence may have a phosphorothicate backbone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae), bacterial antigens (e.g. toxoplasma, and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma, haemophilus, campylobacter, clostridium, Escherichia coli and/or staphylococcus), fungal antigens and/or parasitic antigens. The method staphylococcus), fungal antigens and/or parasitic antigens. The method staphylococcus, fungal antigens antigens antigens disease, allergy also useful for preventing cancer, asthma, infectious disease, allergy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  response. The method comprises administering an immunostimulatory nucleic acid to a non-rodent subject in sufficient quantity to stimulate an immune response. The present sequence is one such immunostimulatory nucleic acid. The immunostimulatory nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich (py-rich) or thymidine (T) rich. The method is used to vaccinate subjects against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Vaccinating against tumors, infectious diseases, allergies and asthma using immunostimulatory Py-rich and TG nucleic acids.
                                                                                                                                                                                                                                                                                                                                                            Phagemid vector pCR2.1 polylinker oligonucleotide #6.
                                                                                                                                                                                                                                                                                                                                                                                                 29-JUN-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                          AAF82472;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 101; Page 56; 338pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25-SEP-1999; 99US-0156113P.
27-SEP-1999; 99US-0156135P.
23-AUG-2000; 2000US-0227436P.
                                                                                                                                                                                                    WO200123419-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention relates to a method for stimulating an immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2001-273485/28.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Krieg AM,
                                         (SCIO-) SCIOS INC.
                                                                                27-SEP-1999;
                                                                                                                    27-SEP-2000; 2000WO-US026582
                                                                                                                                                             05-APR-2001.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
  Kapoun AM,
                                                                                99US-0156277P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 14.8; DB 1;
Pred. No. 4.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1; Length 18;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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RESULT 460
ABQ78729
ID ABQ7877
XX ABQ7877
XX Nucleo
XX Nucleo
XX Enceph
XX Enceph
XX US2002
XX US2002
XX US2002
XX US2002
XX 18-SEP
XX 118-SEP

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Best Local S
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                                                                                                                                                       New Probe cuniculi.
                                                                                                                                                                                                                                                                                                            Hester JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18-SEP-2001; 2001US-00954225.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nosema ceranae.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Encephalitozoon microorganism; drinking water; rRNA; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nucleotide sequence of a microsporidial rRNA gene fragment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           05-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABQ78729;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 1; Page 41; 69pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel secreted factor encoded by clone P00210D09 useful for diagnosing, treating and/or preventing various cardiac, renal and inflammatory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2001-328177/34.
                                                                                                                                                                                                                                                WPI; 2002-673993/72
                                                                                                                                                                                                                                                                                                                                                                                                    (HEST/) HESTER J D. (LIND/) LINDQUIST F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21-SEP-2000; 2000US-0234241P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US2002102584-A1
                                                                                                                                                                                                                                                                                                                                                                     (SCHA/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1520 AAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                                                                                                                                                                                  LINDQUIST H D
SCHAEFER F W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1.1%;
Similarity 88.9%;
                                                                                                                                                                                 for detecting Encephalitozoon protozoans
                                                                                                                                                                                                                                                                                                         Lindquist HDA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 0 A; 0 C; 0 G; 18 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                           6; 9pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                    ×
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0,
                                                                                                                                                                                                                                                                                                            Schaefer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 14.8;
Pred. No. 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4.9e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 18;
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                                                                                                                                                                                    e.g. Encephalitozoon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
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ABQ78717-38 represent rRNA gene fragments, which were aligned to enable designing of probes of the invention. The specification describes probes

Disclosure;

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RESULT 461
AAS94743/C
ID AAS9477
XX AAS9477
XX AAS9477
XX AAS947
AC CAACIA
CC CAACIA
C
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The invention relates to rat secreted factor polypeptides and the polynucleotides encoding them. The sequences are useful for treating cardiac, renal or inflammatory diseases. These include cardiac disease such as congestive heart failure, myocarditis, dilated congestive cardiomyopathy, angina pectoris, myocarditi infarction, cardiac arrhythmia, pulmonary hypertension, arteriosclerosis, atherosclerosis cardiac tumours, renal diseases such as glomerulonephritis, nephrotic syndrome, renal infarction, hereditary nephritis, polycystic kidney disease, chronic renal failure, renal vein thrombosis and medullary sponge kidney and inflammatory diseases such as asthma, rheumatoid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Rat; secreted factor polypeptide; cardiac disease; renal disease; kidney, inflammatory disease; congestive heart fallure; myocarditis; asthma; ss; dilated congestive cardiomyopathy; angina pectoris; cardiac arrhythmia; myocardial infarction; pulmonary hypertension; arteriosclerosis; stroke; atherosclerosis; cardiac tumour; glomerulonephritis; nephrotic syndrome; renal infarction, hereditary nephratis; polycystic kidney disease; chronic renal failure; renal vein thrombosis; medullary sponge kidney; rheumatoid arthritis; osteoarthritis; psolyperations; PCR primer; primer; both thrombosis; polyperations; PCR primer; primer; polyperations; PCR primer; polyperations; PCR primer; primer; primer; polyperations; PCR primer; primer; polyperations; PCR primer; polyperations; PCR primer; primer; polyperations; PCR primer; primer; polyperations; PCR primer; primer; polyperations; PCR primer; polyperations; PCR primer; polyperations; PCR primer; primer; primer; polyperations; PCR primer; primer; primer; polyperations; primer; polyperations; primer; primer; primer; polyperations; primer; primer; pr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              probes hybridise to the 16S rRNA gene, and have a marker attached to then. The probes are able to hybridize with mRNA of one species of genus Encephalitozoon without reactivity with other microorganisms. The probes are useful for detecting the presence of Encephalitozoon microorganisms, especially Encephalitozoon hellem, Encephalitozoon cuniculi and Encephalitozoon intestinalis in drinking water
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 1; Page 51; 189pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel secreted factor polypeptide useful for treating cardiac diseases such as arteriosclerosis, myocardial infarction, inflammatory diseases such as asthma, stroke, and rheumatoid arthritis and renal diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            31-MAR-2000;
14-MAR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23-MAR-2001; 2001WO-US009555.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic
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nes 6; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ĽW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SCIOS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 disease;
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2001US-00809545.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gene therapy.
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Pred. No. 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4.9e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 #6
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tis; probe;
                                                                                                                                                                                                                                                                                                        diseases
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                                                                                   The invention relates to inhibiting angiogenesis in a subject, comprising administering at least one antiangiogenic nucleic acid molecule. Also included is a kit comprising a first container housing the antiangiogenic nucleic acids, and instructions for administering them to a subject having a condition characterised by unwanted angiogenesis. The method is useful for inhibiting angiogenesis associated with solid tumour growth, tumour metastasis, precancerous lesion, rheumatroid arthritis, psoriasis, diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrolental fibroplasia, rebeosts, Osler-Webber Syndrome, myocardial angiogenesis, plaque neovascularisation, telangiectasia, haemophiliac joints, angiofibroma, wound granulation, intestinal adhesions, atherosclerosis, scleroderma and hypertrophic scars. The present sequence is an antiangiogenic nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis; diabetic retinopathy; retinopathy of prematurity; macular degeneration; corneal graft rejection; neovascular glaucoma; retrolental fibroplasia; rubeosis; Osler-Webber Syndrome; myocardial angiogenesis; plaque neovascularisation; telangiectasia; haemophiliac joint; angiofibroma; wound granulation; intestinal adhesion; atheroscierosis;
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                                                            hypertrophic scars. acid of the inventi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Inhibiting angiogenesis in a subject, involves administering at least one antiangiogenic nucleic acid molecule to the subject.
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                                                                                                 Matches
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                                                                                                                                                                                                           Sequence 18
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RESULT 464
ABL39401/c
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                                                      Matches
                                                                    Query Match
Best Local (
                                                                                                                                    The present invention relates to methods for treating or preventing cancer, involving administering to a subject having or at risk of developing cancer immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies. The methods are useful for treating or preventing cancer such as basal cell carcinoma, bladder cancer, bone cancer, brain and central nervous system (CNS) cancer, breast cancer, cervical cancer, colon and rectum cancer, connective tissue cancer, cesphageal cancer, eye cancer, kidney cancer, larynx cancer, leukaemia, liver cancer, lung cancer, Hodgkin's lymphoma, melanoma, myeloma, oral cavity cancer, ovarian cancer, panoreatic cancer, testicular cancer, rabdomyosarcoma, skin cancer, stomach cancer, testicular cancer, and uterine cancer. The present sequence is an immunostimulatory oligonucleotide described in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                Treating or preventing cancer, such as basal cell carcinoma, comprises administering immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies to a subject having or at risk of
                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI;
                                                                                                            Sequence 18
                                                                                                                                                                                                                                                                                                                                                        Disclosure; Page 308; 312pp; English
                                                                                                                                                                                                                                                                                                                                                                                    developing cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22-JUN-2000; 2000US-0213346P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              angiogenesis;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Weiner G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           22-JUN-2001; 2001WO-US020154
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Antibody-induced cell lysis; cancer; immunostimulatory; CD20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Immunostimulatory nucleic acid SEQ ID NO:
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                            1520 AAAAAAAAAAAAGTAAAA 1537
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                                                                     Similarity
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                                                        Conservative
                                                                                                             BP; 0 A;
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1. .18
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                                                                    88.9%;
                                                                                                             0 C; 0 G; 18 T; 0 U;
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                                                                                 1.18;
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                                                                    Score 14.8; DB 1;
Pred. No. 4.9e+02;
                                                         Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                backbone"
                                                                                                               0 Other;
                                                                                Length 18;
                                                        Indels
                                                      0
                                                      Gaps
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RESULT 465 AAD41497/c

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RESULT 466
ABS53437/c
ID ABS534
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AC ABS534
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                                                                                                                                                                                                                    The present invention relates to novel polypeptides having cytotoxic cotivity obtainable from sea hare Aplysia. Sequences of the invention are useful for the manufacture of cytotoxic agents against apportosis. CC resistant cells, where the agents are useful for diagnosis, prevention, treatment of disorders associated with dysfunctions of GAP-SH3 binding CC protein, factors for spentaring or detoxifying reactive oxygen species CC (ROS) and factors for blocking and/or by-passing of caspases. They are CC useful for tumour therapy. Cytotoxic proteins of the invention are useful for destroying tumours and/or selectively killing cells in tissues, for CC identifying novel targets for the development of pharmaceutical agents, CC preferably anti-tumour agents and as specific ion channel modulators, CC e.g., blockers or openers for therapy, diagnostic or research. They are cuseful for the diagnosis and therapy of hyperproliferative diseases, CC preferably tumours, e.g., leukaemia, carcinoma, sarcoma and melanoma. CC degenerative diseases such as Alzheimer's disease, Parkinson's disease, CC present sequence is an oligonucleotide which is used for amplifying sea there cyplasin L DNA. This sequence is used in the exemplification of the
                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Apoptosis; ion channel modulator; hyperproliferative disease; tumour; therapy; leukaemia; carcinoma; sarcoma; degenerative disease; melanoma; Alzheimer's disease; parkinson's disease; arteriosclerosis; heart disease; stroke; vascular disease; nootropic; neuroprotective; cerebroprotective; cardiant; cytotoxic protein; cyplasin L; ss.
   ABS53437;
                            ABS53437 standard; DNA; 18 BP
                                                                                                                                                                                      Sequence 18 BP; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 5; Page 37; 87pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel polypeptide having cytotoxic activity obtainable from Aplysia, useful for destroying tumors, for identifying novel targets for the development of anti-tumor agents, and as specific ion channel modulators.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Butzke
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Oligonucleotide used for amplifying sea hare cyplasin L DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         13-OCT-2000; 2000EP-00122466
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                                                                                                              1520 ААААААААААААСТАААА 1537
                                                                                        18
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                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry
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                                                                                                                                                                                      G; 18 T; 0 U;
                                                                                                                                                   Score 14.8;
Pred. No. 4.
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                                                                                                                                        Mismatches
                                                                                                                                                   4.9e+02
                                                                                                                                                              DB 1; Length 18;
                                                                                                                                                                                        0 Other;
                                                                                                                                        Indels
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                                                                                                               RESULT 467
ABA93239/c
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Best Local (
                                                                                                     ABA93239
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     Detection;
                                                                            АВА93239;
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This invention relates to a novel method for increasing the efficiency of coscond strand cDNA synthesis through a mechanism of terminal continuation. In the method an RNA molecule is obtained and a first complementary region of the molecule before a second primer is added that comprises a region that hybridiess to a complementary region of the molecule before a second primer is added complementary nucleic acid molecule before a second primer as added complementary nucleic acid molecule is synthesised, the RNA molecule and second primer are removed and a second complementary nucleic acid molecule is synthesised, the removed and complementary nucleic acid molecule is synthesised to form a second hybrid with an extension product of the third primer bound to the first complementary molecule. The method of the invention is useful for increasing the efficiency of second strand count is synthesis and may be used for linear amplification of genetic signals from histologically stained tissue. The present sequence corresponds to the invention of the invention of contraction of contracti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14-FEB-2001; 2001US-0268645P.
14-FEB-2001; 2001US-0268664P.
18-JUL-2001; 2001US-0306216P.
07-NOV-2001; 2001US-0344557P.
07-NOV-2001; 2001US-0348542P.
09-NOV-2001; 2001US-0350176P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22-AUG-2002
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                                                                                  Adaptor oligonucleotide SEQ ID NO:2.
                                                                                                                                                                                   18-APR-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 7; Page 80; 128pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14-FEB-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1520 AAAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                                                                                                                                                                                  standard; DNA; 18
comparative detection; adaptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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                                                                                                                                                                                   (first entry)
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Pred. No. 4.9e+02;
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88
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                                                                                                                                                                                                                                                                                                                               RESULT 468
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                 29-OCT-2002; 2002WO-CA001628
                                                     08-MAY-2003.
                                                                                                                                                                                                                         07-AUG-2003
                                                                                                                                                                                                                                                             AAD56466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   of the genomic DNAs are measured between the individuals. The method is used for the detection of the amounts of RNA and DNA. The present sequence represents an oligonucleotide which is used in the exemplification of the present invention
                                                                                                                       Unidentified
                                                                                                                                                     Acyclic linker; gene expression; gene therapy; ss
                                                                                                                                                                                                                                                                                             AAD56466 standard; RNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Comparative detection of the amounts
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local
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                                                                                                                                                                                                                                                                                                                                                                                  18
                                                                                                                                                                                         RNA #1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
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                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                         used in
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                                                                                                                                                                                         the exemplification of the invention
                                                                                                                                                                                                                                                                                               ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 14.8; D
Pred. No. 4.9e
0; Mismatches
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RESULT 469
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                                                                                                              Novel acyclic linker-containing oligonucleotide useful for preventing or decreasing translation, reverse transcription and/or replication of a target RNA in a system, comprises a modified deoxyribonucleotide.
                                                                                                                                                                                                                                      WPI; 2003-421516/39.
                                                                                                                                                                                                                                                                                            Damha MJ,
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The invention relates to an acyclic linker-containing oligonucleotide

Example 2; Fig 9; 104pp; English

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                       The invention relates to an acyclic linker-containing oligonucleotide comprising at least one modified deoxyribonucleotide. Oligonucleotides of the invention are useful for preventing or decreasing translation, reverse transcription and/or replication of a target RNA in a system. They are useful for selectively preventing gene expression in a sequence-specific manner, for hybridising to complementary RNA such as cellular mRNA or viral RNA, to hybridise to and induce cleavage of complementary
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Best Local !
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Treating non-allergic inflammatory diseases, sallergic contact dermatitis, latex dermatitis disease by administering an immunostimulatory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Immunostimulatory; antiinflammatory; dermatological; antipsoriatic; antilicer; gene therapy; vaccine; non-allergic inflammatory disease psoriasis; eczema; allergic contact dermatitis; latex dermatitis; inflammatory bowel disease; ulcerative colitis; Crohn's disease; ss
                                                                                                                                                                                                                                                                                                          useful for treating non-allergic inflammatory diseases, such as psoriasis, eczema, allergic contact dermatitis, latex dermatitis or inflammatory bowel disease e.g., ulcerative colitis or Crohn's disearchis sequence represents an immunostimulatory nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention describes a method of treating non-allergic inflammatory disease comprising administering to a subject having or at risk of developing a non-allergic inflammatory disease an immunostimulatory nucleic acid for prevention or treatment of the disease. The method is
                                                                                                                                                                                                                                 Sequence 18 BP; 0
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BERG D J.
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                                                                                      Antisense oligo #1 used in the exemplification of the invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              spot identification;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1; Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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                                                                                                                                                                                                                                                                                                                                                  AAD57878/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to a new oligonucleoside which comprises at CC alternating first and second segments. The first segment comprises at CC least one sugar modified nucleoside. The second segment comprises at CC least one 2'-deoxynucleoside. The oligonucleoside comprises at least 2 of CC each of the first and second segments, so that it comprises at least 4 of CC composition for inducing RNase H-mediated cleavage of a target RNA in a System, preventing or decreasing translation, transcription or CC replication of a target RNA in a system, validating a gene target corresponding to a CC target RNA in a system or preventing or treating a disease related to a CC target RNA in a system or preventing or treating a disease related to a CC target RNA in a system or preventing or treating a disease related to a CC target RNA in a system or preventing or treating a disease related to a CC target RNA in a system or preventing or treating a disease related to a CC target RNA in a system or preventing or treating a disease related to a CC target RNA in a system or preventing a gene therapy. The present CC sequence is an antisense oligonucleotide used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Unidentified
               misc_RNA
                                                                                 misc_RNA
                                                                                                                                 Unidentified
                                                                                                                                                                                  Sugar-modified hepatitis B; ge
                                                                                                                                                                                                                                  Antisense DNA-RNA hybrid #2 used in the exemplification of the invention.
                                                                                                                                                                                                                                                                     20-NOV-2003
                                                                                                                                                                                                                                                                                                                                   AAD57878 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New oligonucleotide,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-689523/65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Damha MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-FEB-2002; 2002US-0352873P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             31-JAN-2003; 2003WO-CA000129
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              hepatitis B; gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (UYMC-) UNIV MCGILL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   1520 ААЛАЛАЛАЛАЛАГТАЛЛА 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         target RNA in a system, e.g.,
                                                                                                                                                                                                                                                                                                                                                                                                                      18 AAAAAAAAAAAAAAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1.1%;
il Similarity 88.9%;
16; Conservation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2; Page 35; 73pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Parniak MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BP; 0
                                                                                                                                                                                gene
                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                nucleoside;
ene therapy;
/note= "2'-O-methyl-D-uridine"
7. .9
/*tag= b
                                                                                                    Location/Qualifiers
                                                  /*tag= a
/label= RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              therapy; virucide; anti-HIV; antisense; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; 0 C; 0 G; 18 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           useful for preventing or treating a system, e.g., AIDS or hepatitis B.
                                                                                                                                                                                  acquired immune deficiency syndrome; virucide; anti-HIV; antisense; DNA-R
                                                                                                                                                                                                                                                                                                                                    ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 14.8; DB 1; Length 18; Pred. No. 4.9e+02; O; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              disease
                                                                                                                                                                                   DNA-RNA hybrid;
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RESULT 475
AAD57879/c
ID AAD57879;
XX
AC AAD57879;
XX
AC AAD57879;
XX
DE Antisense DNA-RNA hybrid #3 v
XX
DE Antisense DNA-RNA hybrid #3 v
XX
Sugar-modified nucleoside; ac
XX
Sugarititis B; gene therapy; vi
XX
OS Unidentified.
XX
XX
CS Unidentified.
XX
XX
CS Unidentified.
XX
XX
AC Location/Qual
FH Key
FT misc_RNA 1.6
FT /*tag= a
FT /*tag= a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention relates to a new oligonucleoside which comprises at CC alternating first and second segments. The first segment comprises at CC least one sugar modified nucleoside. The second segment comprises at CC least one 2'-deoxynucleoside. The oligonucleoside comprises at least 2 of each of the first and second segments, so that it comprises at least 4 of CC each of the first and second segments, so that it comprises at least 2 of composition for inducing RNase H-mediated cleavage of a target RNA in a System, preventing or decreasing translation, transcription or replication of a target RNA in a system, detecting the presence of a target RNA in a system, validating a gene target corresponding to a ctarget RNA in a system, or preventing or treating a disease related to a ctarget RNA in a system, e.g., acquired immune deficiency syndrome (AIDS) or hepatitis B. The invention is useful in gene therapy. The present correspondence is an antisense DNA-RNA hybrid used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local :
                                                                                                                                              Sugar-modified nucleoside; acquired immune deficiency syndrome; hepatitis B; gene therapy; virucide; anti-HIV; antisense; DNA-RN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 18 BP; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New oligonucleotide, useful for preventing or treating a disease related to a target RNA in a system, e.g., AIDS or hepatitis B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Damha MJ, Parniak MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                31-JAN-2003; 2003WO-CA000129
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                                                                                                                                                                                                   Antisense DNA-RNA hybrid #3 used in the exemplification of
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                                                                                                                                                                                                                                                                                                                                                                                                                     1520 AAAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                                                                                                                                                                                                                 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     l Similarity
16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2; Page 35; 73pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                 AAAAAAAAAAAAAAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1.1%;
ilarity 88.9%;
Conservative
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13. .15
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/label= RNA
/note= "2'-O-methyl-D-uridine"
                                                       Location/Qualifiers
     /*tag= a
/label= RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /label= RNA
/note= "2'-0-methyl-D-uridine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; 0 C; 0 G; 9 T; 9 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 14.8; DB 1;
Pred. No. 4.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                               anti-HIV; antisense; DNA-RNA hybrid;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                     the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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RESULT 476
AAD57877/C
ID AAD578
XX
AAD578
AC AAD578
XX
DT 20-NOV
DT 20-NOV
DX
ANTise
XX
M Sugar-
KW Sugar-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention relates to a new oligonucleoside which comprises CC alternating first and second segments. The first segment comprises at CC least one sugar modified nucleoside. The second segment comprises at CC least one 2'-deoxynucleoside. The oligonucleoside comprises at least 2 of CC each of the first and second segments, so that it comprises at least 2 of CC each of the first and second segments, so that it comprises at least 2 of CC each of the first and second segments, so that it comprises at least 3 of CC experiments of the first and second segments, so that it comprises at least 4 of CC composition for inducing RNase H-mediated cleavage of a target RNA in a CC expetion, preventing or decreasing translation, transcription or CC target RNA in a system, validating a gene target corresponding to a CC target RNA in a system or preventing or treating a disease related to a CC target RNA in a system or preventing or treating a disease related to a CC target RNA in a system, e.g., acquired immune deficiency syndrome (AIDS) CC or hepatitis B. The invention is useful in gene therapy. The present CC sequence is an antisense DNA-RNA hybrid used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7877/c
AAD57877
                                                                                                                                                                                                                                                                          Sugar-modified nucleoside; acquired immune deficiency syndrome; AIDS; hepatitis B; gene therapy; virucide; anti-HIV; antisense; DNA-RNA hybrid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 18 BP; 0 A; 0 C; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New oligonucleotide, useful for preventing or treating to a target RNA in a system, e.g., AIDS or hepatitis B
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                                                                                            misc_RNA
                                                                                                                                                                                     Unidentified
                                                                                                                                                                                                                                                                                                                                                                Antisense DNA-RNA hybrid #1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAD57877;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               standard; DNA; 18 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
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13. .18
/label= RNA
/note= "2'-O-methyl-D-uridine"
                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /*tag= b
/label= RNA
/note= "2′-O-methyl-D-uridine'
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                                                                                                                                                                                                                                                                                                                                                                      used in the exemplification of the invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 18;
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The present invention relates to a new oligonucleoside which comprises at alternating first and second segments. The first segment comprises at least one sugar modified nucleoside. The second segment comprises at least one 2'-deoxynucleoside. The oligonucleoside comprises at least 2 of each of the first and second segments, so that it comprises at least 4 calternating segments. The oligonucleotide is useful for preparing a composition for inducing RNase H-mediated cleavage of a target RNA in a system, preventing or decreasing translation, transcription or system, preventing or decreasing translation, transcription or replication of a target RNA in a system, validating a gene target corresponding to a target RNA in a system or preventing or treating a disease related to a target RNA in a system, e.g., acquired immune deficiency syndrome (AIDS) or hepatities B. The invention is useful in gene therapy. The present sequence is an antisense DNA-RNA hybrid used in the exemplification of the invention
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 Sequence
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                                                                                                                                                                                                                                                New oligonucleotide, useful for preventing or treating a disease related to a target RNA in a system, e.g., AIDS or hepatitis B.
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18 BP;
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/label=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   label= RNA
note= "2'-O-methyl-D-uridine'
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  label-
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 0 0; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "2'-O-methyl-D-uridine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "2'-0-methyl-D-uridine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "2'-0-methyl-D-uridine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "2'-O-methyl-D-uridine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -O-methyl-D-uridine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -O-methyl-D-uridine
 G; 9 T; 9 U; 0 Other;
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Query Match 1.1%; Best Local Similarity 88.9%; Matches 16; Conservative

Score 14.8; DB 1; Pred. No. 4.9e+02; 0; Mismatches 2

DB 1;

Length 18; Indels

<u>,,</u>

Gaps

0

RESULT 478 ADB37210/c

210/c ADB37210 standard; DNA; 18

ВP

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ADB37210;

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RESULT 477
AAD57890
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                              S
                                                                                                                                                  The present invention relates to a new oligonucleoside which comprises at CC alternating first and second segments. The first segment comprises at CC least one sugar modified nucleoside. The second segment comprises at CC least one 2'-deoxynucleoside. The oligonucleoside comprises at least 2 of each of the first and second segments, so that it comprises at least 4 CC each of the first and second segments, so that it comprises at least 4 CC each of the first and second segments, so that it comprises at least 4 CC experiments. The oligonucleotide is useful for preparing a CC composition for inducing RNAse H-mediated cleavage of a target RNA in a System, preventing or decreasing translation, transcription or CC replication of a target RNA in a system, detecting the presence of a CC target RNA in a system, validating a gene target corresponding to a CC target RNA in a system, e.g., acquired immune deficiency syndrome (AIDS) CC target RNA in a system, e.g., acquired immune deficiency syndrome (AIDS) CC target RNA in a system, e.g., acquired immune deficiency syndrome (AIDS) CC target RNA in a system, e.g., acquired immune deficiency syndrome (AIDS) CC target RNA in a system, e.g., acquired immune deficiency syndrome (AIDS) CC target RNA in a system, e.g., acquired immune deficiency syndrome (AIDS) CC target RNA used in RNAsse H assay. This sequence is used in the exemplification of the invention
                                                                                          Query Match
Best Local
                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sugar-modified nucleoside; acquired immune deficiency syndrome; AIDS; hepatitis B; gene therapy; virucide; anti-HIV; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAD57890 standard; RNA; 18
                                                                                                                                                Sequence 18 BP; 18 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 4; Page 38; 73pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New oligonucleotide, useful for preventing or treating a disease related to a target RNA in a system, e.g., AIDS or hepatitis B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Damha MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-FEB-2002; 2002US-0352873P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          31-JAN-2003; 2003WO-CA000129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Target RNA #1 used in RNase H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-NOV-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAD57890;
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                                1520 ААААААААААААСТАААА 1537
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                                                                        16;
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                                                                                          Similarity
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                                                                      Conservative
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                                                                                      1.1%;
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                                                                      0,
                                                                                          Score 14.8; DB 1; Length 18; Pred. No. 4.9e+02;
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                                                                        Mismatches
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04-DEC-2003

(first entry)

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RESULT 479
ADB37236/c
ID ADB37236 s
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to a method of treating or preventing allergy or asthma which comprises administering to a subject a poly-G nucleic acid in an aerosol formulation. The method and compositions of the present invention are useful for diagnosing and/or treating asthma and allergy especially in a hypo-responsive subject. The present sequence represent an immunostimulatory nucleic acid of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Treating and/or preventing allergy or asthma using an immunostimulatory nucleic acid alone or in combination with an asthma/allergy medicament.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bratzler RL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      hypo-responsive
                              03-FEB-2000;
                                                                                                               Synthetic
                                                                                                                                   ds; allergy; asthma; poly-G nucleic acid; aerosol formulation;
hypo-responsive subject; immunostimulatory.
                                                                                                                                                                                                                                                                                                                                                                  Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Page 17; 221pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (BRAT/)
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(BRAT/)
(PETE/)
                                                  02-FEB-2001; 2001US-00776479.
                                                                                            US2003087848-A1
                                                                                                                                                                 Immunostimulatory nucleic acid
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BRATZLER
PETERSEN
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PETERSEN D M.
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                                                                                                                                                                                                                                standard; DNA; 18
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nilarity 88.9%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                   BP; 0
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                               2000US-0179991P
                                                                                                                                                                                      (first entry)
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                                                                                                                                                                                                                                                                                                                                                                   G; 18 T; 0 U;
                                                                                                                                                                                                                                                                                                                                     Score 14.8;
Pred. No. 4.
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RESULT 480
ADE77617
ID 29-JAN
XX ADE776
XX Probe;
KW geneti
KW geneti
KW cystic
XX Synthe
OS Synthe
OS Homo s
XX WO2003
XX IS-OCT
PR 15-OCT
PR 15-
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a method of treating or preventing allergy or asthma which comprises administering to a subject a poly-G nucleic acid in an aerosol formulation. The methods and compositions of the present invention are useful for diagnosing and/or treating asthma and allergy especially in a hypo-responsive subject. The present sequence represents an immunostimulatory nucleic acid of the invention.
                                                                                                                                 Concurrent interrogation of a number of polymorphic sites, useful for genetic testing, carrier screening, genetic profiling, and identity testing, comprises conducting a multiplexed elongation assay using
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     probe; ss; negative control; CFTR; human leukocyte antigen; HLA;
genetic testing; carrier screening; genotyping; profiling; polymorphic;
multiplexed elongation assay; enzymatic recognition;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Page 18; 221pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Treating and/or preventing allergy or asthma nucleic acid alone or in combination with an
                                                                                                                                                                                                                                                                                                                                                                                                    15-OCT-2001; 2001US-0329427P.
15-OCT-2001; 2001US-0329428P.
15-OCT-2001; 2001US-0329619P.
15-OCT-2001; 2001US-0329620P.
14-MAR-2002; 2002US-0364416P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-OCT-2002; 2002WO-US033012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic.
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                                                                                                                                                                                                                                             WPI; 2003-393553/37.
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                                                                                                                                                                                                                                                                                                                                                     (BIOA-)
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                                                                                                                                                                                                                                                                                                 Hashmi G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        standard; DNA; 18 BP
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Pred. No. 4.9e+02;
0; Mismatches 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ×
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Example

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Page

46; 143pp; English.

invention

relates

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novel method

for

the

concurrent interrogation

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CC of a number of polymorphic sites in the presence of, and without CC interference from, non-designated polymorphic sites. Specifically, it comprises conducting a multiplexed elongation assay by applying one or CC exemperature cycles to achieve linear amplification of the target or a combination of annealing and elongation steps under temperature—CC controlled conditions. Furthermore, this detection method uses probe—CC extension or elongation and relies on enzymatic recognition, a superior cechnique that no longer depends on differential hybridisation. The present invention describes probes and methods useful for identifying or CC detecting polymorphisms at one or more designated sites, such that they can identify mutations within the cystic fibrosis conductance transmembrane regulator (CFTR) or the human leukocyte antigen (HLA) CC genes. In addition, concurrent interrogation of a multiplicity of genotyping or genetic profiling, and identify testing. This creening, CC oligonucleotide is the negative control probe used for the elongation of the elongation elongation elongation elongation elon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local
The invention relates to amplifying for RNA in a sample comprises eliminating single-stranded oligonucleotide from the transcription sample. The method involves synthesizing single-stranded cDNA by incubating the sample RNA with reverse transcriptase and an oligonucleotide primer that primes synthesis in a direction toward 5' end of the RNA; converting the single-stranded cDNA into double-stranded cDNA to form a transcription sample containing a cDNA template; eliminating single-stranded oligonucleotide from the transcription sample; and transcribing the cDNA template into RNA using an RNA polymerase. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
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                                                                                                                                                                                                                                                                                                                          Example 1; SEQ ID NO 8; 26pp; English.
                                                                                                                                                                                                                                                                                                                                                                                 Amplifying for RNA in a sample, useful for improving RNA polymerase based RNA transcription from a polynucleotide template, comprises eliminating single-stranded oligonucleotide from the transcription sample.
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Pred. No. 4.9e+02;
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The invention relates to a method of determining a functional property of comprising introducing into the chamber a support to CC which is bound several test elements, each of the test elements comprising a reaction domain and a detection domain, introducing into the chamber a fluid that is interactive with the reaction domains, removing CC the fluid from the chamber, determining by means of the detection domains comprises a which the fluid has not interacted with the reaction domains and relating the locations to the functional property of the comprises a member of a specific binding pair. The deterction domain CC comprises a member of a specific binding pair. The determining of the CC step involves treating the test elements to modify only those reaction comprises a member of a specific binding pair. The determining of the CC domains that have interacted with the fluid. The functional property is CC chosen from the flow pattern of the fluid. The distribution within CC useful for determining a functional property of a fluid in a chamber and CC comprises a member of biopolymers e.g., arrays of polynucleotides. The method is a constitution of a new fluid in a known cCC flow cell, a known fluid in a new fluid or a new fluid/flow cell
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                            Determining a functional property of fluid in chamber by introducing a support comprising test elements having reaction and detection domains, introducing a test fluid, and detecting locations not reactive with the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   from a polynucleotide template. The method inhibits the undesired template derived production of RNA in the transcription reaction. Sequences ADI34483-ADI34489 represent oligonucleotides used in a
                                                                                                                                                                                                                                                                                                                           Example
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          CC The invention describes a method of synthesising single stranded cDNA by CC a 5'-ligated adaptor-mediated process involving: annealing a cDNA CC synthesis primer to RNA, separating the cDNA strand from the RNA, CC puritying the cDNA, contacting the cDNA with an adaptor. It gating the CC stranded using DNA ligase, and amplifying the obtained ligated single CC stranded using DNA ligase, and amplifying the obtained ligated single CC stranded fragment in an molecular amplification procedure. The method is useful for: synthesising a single stranded cDNA by a 5'-ligated adaptor. CC mediated process, where the source of nucleat acid is chosen from blood, CC serum, plasma, cerebrospinal fluid, urine, tissue samples, biopsies and CC cell, 100-100000 cells or more as desired, making a cDNA library from a CC collection of mRNA molecules in a sample, where the method is applied to complify the cDNAs corresponding to the mRNAs by annealing one or more CC containing single stranded cDNA collection from a first mRNA population by the method, where primer 1 is modified by biotin in the 5' end, isolating the biotin-containing single stranded cDNA (sense) by use of streptavidin coated containing single stranded cDNA (anti-sense) by use of streptavidin coated containing single stranded cDNA (anti-sense) by use of streptavidin coated containing single stranded cDNA (anti-sense) by use of streptavidin coated containing single stranded cDNA (anti-sense) by use of streptavidin coated containing single stranded cDNA (anti-sense) by use of streptavidin coated containing single stranded cDNA (anti-sense) by use of streptavidin coated containing single stranded cDNA (anti-sense) by use of streptavidin coated coated coated cDNA (anti-sense) by use of streptavidin coated coated coated cDNA (anti-sense) by use of streptavidin coated coated coated cDNA (anti-sense) by use of streptavidin coated coated coated coated cDNA (anti-sense) by use of streptavidin coated coated coated cDNA coated coated coated coated coated coated coated coated co
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XX Single
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CC The invention describes a method of synthesising single stranded cDNA by CC a 5'-ligated adaptor-mediated process involving: annealing a cDNA CC synthesis primer to RNA, separating the CDNA strand from the RNA, CC purifying the cDNA, contacting the cDNA strand from the RNA, CC purifying the cDNA, contacting the cDNA with an adaptor, ligating the CC adaptor through 5'-phosphate on strand (II) of the adaptor to single CC stranded using DNA ligase, and amplifying the obtained ligated single CC stranded fragment in an molecular amplifying the obtained ligated single CC useful for: synthesising a single stranded cDNA by a 5'-ligated adaptor-CC mediated process, where the source of nucleic acid is chosen from blood, CC serum, plasma, cerebrospinal fluid, urine, tissue samples, biopsies and CC selly. 100-100000 cells or more as desired; making a cDNA library from a CC collection of mRNA molecules in a sample, where the method is applied to CC amplify the cDNAs corresponding to the mRNAs by annealing one or more CC cDNA synthesis primers to several mRNAs in the sample; producing a subtractive hybridisation probe which involves synthesising a double-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthesizing single stranded cDNA, involves annealing cDNA synthesis primer to RNA and synthesizing first cDNA strand, ligating adaptor to single stranded cDNA using DNA ligase, and amplifying ligated single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 1; SEQ ID NO 7; 22pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              stranded cDNA fragment.
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Pred. No. 4.9e+02
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Best Local
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Pred. No. 4.9e+02;
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The present invention describes a method for constructing a synthetic polynucleotide from which a polypeptide is producible to confer a selected phenotype to an organism of interest or part in a different quality than that conferred by a parent polynucleotide that encodes the same polypeptide. The method comprises: (a) selecting a first codon of the parent polynucleotide for replacement with a synonymous codon, where the synonymous codon is selected on the basis that it exhibits a different phenotypic preference than the first codon in a comparison of phenotypic preferences in test organisms or parts, where the test

parts, where the same species as (

Constructing synthetic polynucleotide for modulating the quality of a selected phenotype displayed by an organism comprises replacing a first codon with a synonymous codon to construct the synthetic polynucleotide

SEQ ID NO 47; 86pp; English.

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                                                                                  WPI; 2004-411519/38.
P-PSDB; ADO26685.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 14.8; DB 1;
Pred. No. 4.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4.9e+02;
2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
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RESULT 487
AD026616/c
ID AD0266
XX
AC AD0266
XX
DT 12-AUG
DX Synthe
XX
Phenot
XX
Pheno
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention describes a method for constructing a synthetic conjuncted from which a polypoptide is producible to confer a selected phenotype to an organism of interest or part in a different conferred by a parent polymucleotide that encodes the parent polypucleotide. The method comprises: (a) selecting a first codon of the parent polypucleotide for replacement with a synonymous codon, where the synonymous codon is selected on the basis that it exhibits a clifferent phenotypic preference than the first codon in a comparison of companism are selected from organisms or parts, where the test organism are selected from organisms or parts, where the test corganism are selected from organisms of the same species as the organism cod interest; (a) a printletic polynucleotide. Also described: (l) a method for construct the synthetic polynucleotide constructed from the method above; (3) an organism or interest or part containing a synthetic construct that comprises a regulatory polynucleotide constructed from the method above; (4) an organism or interest or part containing a synthetic construct that comprises a regulatory polynucleotide operably linked to a tandem repeat cof a first codon fused in frame with a reporter polynucleotide that comprises a reporter protein, which produces, or is predicted to produce a selected phenotype that is displayed by an organism of interest or part concedes the polypoptide; (6) a method of modulating the quality of a selected phenotype that is displayed by an organism of interest or part cenced phenotype that is displayed by an organism of interest or part cenced phenotype that is displayed by an organism of interest or part cenced the polypoptide; (6) a method of reducing the quality of a selected phenotype that is displayed by an organism of interest or part cenceds the polypoptide; (6) a method of reducing the quality of a selected phenotype that is displayed by an organism of interest or part cenced the confer of the part of the confer of the part of the confer of the part 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local
       10-NOV-2003; 2003WO-AU001487.
                                                                                                                                                                                                                                                                                                                                                                                                                                          12-AUG-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 1; SEQ
                                                                             21-MAY-2004
                                                                                                                                                    WO2004042059-A1
                                                                                                                                                                                                                                                                                          phenotype; phenotypic preference; phenotype modulation; leader;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADO26616 standard; DNA; 18 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 18 BP; 0
                                                                                                                                                                                                                                                                                                                                                                Synthetic leader sequence encoding DNA SEQ ID NO:9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1520 AAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ID NO 77; 86pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; 0 C; 0 G; 18 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 14.8; DB 1; Length 18; Pred. No. 4.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ٥,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
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cc quality than that conterred by a parent polynucleotide that encodes the came polypeptide. The method comprises: (a) selecting a first codon of the synonymous codon is selected on the basis that it exhibits a three cylindrical phenotypic preference than the first codon in a comparison of phenotypic preferences in test organisms or parts, where the test co cryanism are selected from organisms of the same species as the organism of interest and organisms that are related to the organisms of the synonymous codon, to construct the synthetic polymucleotide. Also described: (1) a method for construct the synthetic polymucleotide. Also described: (1) a method for construct the synthetic polymucleotide constructed from the method above; (3) an organism or interest or part containing a synthetic polymucleotide constructed from the method above; (4) an organism or interest or part containing a synthetic constructed from the method above; (4) an organism or interest or part containing a synthetic construct that comparises a regulatory polymucleotide poperably linked to a tandem repeat confides a reporter protein, which produces, or is predicted to produce a cof a first codon fused in frame with a reporter pynucleotide that the confides a reporter portein, which produces, or is predicted to produce a selected phenotype that is displayed by an organism of interest or part containing the quality of a selected phenotype that is displayed by an organism of interest or part containing the quality of a selected phenotype that is displayed by an organism of interest or part containing the quality of a selected phenotype that is displayed by an organism of interest or part conditions the produce of a selected phenotype that is displayed by an organism of interest or part conditions the produce of a selected phenotype that is displayed by an organism of interest or part in a different of a selected phenotype to an organism of interest or part in a different of a prent polymucleotide that confer the polympides of a selected part o
밁
                                       S
                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Constructing synthetic polynucleotide for modulating the quality of a selected phenotype displayed by an organism comprises replacing a first codon with a synonymous codon to construct the synthetic polynucleotide.
                                                                                                                                                                            Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention describes a method for constructing a synthetic polynucleotide from which a polypeptide is producible to confer a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 1; SEQ ID NO 9; 86pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2004-411519/38.
P-PSDB; ADO26617.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (UYQU ) UNIV QUEENSLAND.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          08-NOV-2002; 2002US-0425163P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         selected phenotype to an organism of interest or part in a different
                                          426 GGCGGCTGCGGCCCGGC 443
                                                                                        16;
                                                                                                             Similarity
GGCGGCGGCGGCGC 1
                                                                                                                                                                            BP; 0 A;
                                                                                        Conservative
                                                                                                           1.1%;
                                                                                                                                                                            12 C; 6
                                                                                      ,;
                                                                                                                Score 14.8; DB 1; Length 18; Pred. No. 4.9e+02;
                                                                                                             Pred.
                                                                                                                                                                            G; 0 T; 0 U; 0 Other;
                                                                                        Mismatches
                                                                                                         4.9e+02;
                                                                                        Indels
                                                                                        0
                                                                                        Gaps
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AD026612

ADO26612 standard; DNA; 18

밁 8:

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CC organism or interest or part containing a synthetic construct that C comprises a regulatory polynucleotide operably linked to a tandem repeat CC encodes a reporter protein, which produces, or is predicted that CC encodes a reporter protein, which produces, or is predicted to produce a celected phenotype or a phenotype of the same class as the selected comprise in the organism or part; (5) a method of modulating the quality of a selected phenotype that is displayed by an organism of interest or part and that results from the expression of a parent polynucleotide that CC encodes the polypeptide; (6) a method of enhancing the quality of a condest the polypeptide; (6) a method of reducing the quality of a condest the polypeptide; (7) a method of reducing the quality of a condest the polypeptide; and (7) a method of reducing the quality of a condest the polypeptide; and (7) a method of reducing the quality of a condest the polypeptide; and (7) a method of reducing the quality of a condest the polypeptide; and (7) a method of reducing the quality of a condest that is displayed by an organism of interest or part conditions that results from the expression of a parent polynucleotide that condest the polypeptide. The method is useful for constructing a condition of a parent polynucleotide that the condest the polypeptide. It is useful for modulating the quality of a selected condition of a parent polynucleotide that encodes the polypeptide. It is useful for modulating the quality of a selected condition of a synthetic leader sequence, which is used in an example from the present encodes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 polynuclectide from which a polypeptide is producible to confer a selected phenotype to an organism of interest or part in a different quality than that conferred by a parent polynuclectide that encodes the same polypeptide. The method comprises: (a) selecting a first codon of the parent polynuclectide for replacement with a synonymous codon, where the synonymous codon is selected on the basis that it exhibits a different phenotypic preference than the first codon in a comparison of phenotypic preferences in test organisms or parts, where the test organism are selected from organisms of the same species as the organism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of interest and organisms that are related to the organisms of interest; and (b) replacing the first codon with the synnonymous codon to construct the synthetic polynucleotide. Also described: (1) a method for determining the phenotypic preference of a first codon in an organism of interest or its parts; (2) a synthetic polynucleotide constructed from the method above; (3) an organism or interest or part containing a synthetic polynucleotide constructed from the method above; (4) an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-NOV-2003; 2003WO-AU001487.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12-AUG-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              codon with a synonymous codon to construct the synthetic polynucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Constructing synthetic polynucleotide for modulating the quality of a selected phenotype displayed by an organism comprises replacing a firm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO2004042059-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic leader sequence encoding DNA SEQ ID NO:5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention describes a method for constructing a synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 1; SEQ ID NO 5; 86pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VIND ( DQYD)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              08-NOV-2002; 2002US-0425163P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               phenotype; phenotypic preference; phenotype modulation; leader;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2004-411519/38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             QUEENSLAND
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ds.
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Query Match Best Local Similarity 1.1%; Score 14.8; DB 1; Length 18; Pred. No. 4.9e+02;

BP; 0

A; 6 C; 12 G; 0 T; 0 U;

0 Other;

RESULT 489
ADD26628/c
ID ADD266
XX A Matches Constructing synthetic polynucleotide for modulating the quality of a selected phenotype displayed by an organism comprises replacing a first codon with a synonymous codon to construct the synthetic polynucleotide WPI; 2004-411519/38. 08-NOV-2002; 2002US-0425163P phenotype; phenotypic preference; phenotype modulation; leader; ds 10-NOV-2003; 21-MAY-2004 WO2004042059-A1 Synthetic leader sequence encoding DNA SEQ ID NO:21 12-AUG-2004 ADO26628; ADO26628 standard; DNA; 18 (UYQU ) UNIV QUEENSLAND 427 GCGGCTGCGGCGCCGGCG 444 16; eceeceecececece 18 Conservative 2003WO-AU001487. (first entry ВP 0; Mismatches <u>ب</u> 0 Gaps 0

Example 1; SEQ ID NO 21; 86pp; English.

CC of interest and organisms that are related to the organisms of interest cand (b) replacing the first codon with the synnymous codon to construct the synthetic polynucleotide. Also described: (1) a method for construct conterest or its parts; (2) a synthetic polynucleotide constructed from the method above; (3) an organism or interest or part containing a constructed from the method above; (3) an organism or interest or part containing a constructed from the method above; (4) an constructed from the method above; (4) an constructed from the method above; (4) an construct or part containing a synthetic construct that comprises a regulatory polynucleotide operably linked to a tandem repeat cof a first codon fused in frame with a reporter polynucleotide that concess a reporter protein, which produces, or is predicted to produce a concess a reporter protein, which produces, or is predicted to produce a concess a reporter protein, which produces, or is predicted to produce a concess a reporter protein, which produces, or is predicted to produce a concess a reporter protein, which produces, or is predicted to produce a concess a selected phenotype or a phenotype of the same class as the selected construct that is displayed by an organism of interest or part and that results from the expression of a parent polynucleotide that concess the polypeptide; (6) a method of enhancing the quality of a selected phenotype that is displayed by an organism of interest or part containing the quality of a selected phenotype that is displayed by an organism of interest or part containing the quality of a selected phenotype that is displayed by an organism of interest or part containing the quality of a selected phenotype that is displayed by an organism of interest or part containing the quality of a selected phenotype that is displayed by an organism of interest or part containing the quality of a selected phenotype that is displayed by an organism of interest or part containing the quality of a selected phenotype that is displaye The present invention describes a method for constructing a synthetic polynucleotide from which a polypeptide is producible to confer a selected phenotype to an organism of interest or part in a different quality than that conferred by a parent polynucleotide that encodes the same polypeptide. The method comprises: (a) selecting a first codon of the parent polynucleotide for replacement with a synonymous codon, where the synonymous codon is selected on the basis that it exhibits a different phenotypic preference than the first codon in a comparison of phenotypic preference in test organisms or parts, where the test organism are selected from organisms of the same species as the organism organism are selected from organisms of the same species as the organism

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encodes the polypeptide. The method is useful for constructing a synthetic polypucleotide from which a polypeptide is producible to confer a selected phenetype to an organism of interest or part in a different quality than that conferred by a parent polynucleotide that encodes the same polypeptide. It is useful for modulating the quality of a selected phenetype displayed by an organism or part. The present sequence encodes a synthetic leader sequence, which is used in an example from the present
            present
                                                                                                                                                                                                                                                                                                   confer
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```
SSSSSSSSSS
밁
           5
                                Query Match
Best Local Similarity
                          Matches
                                                    Sequence 18
             427
18
                          16;
eceeceeceecece 1
             ececrecececece
                                                    BP; 0 A; 12 C; 6 G;
                          Conservative
                                1.1%;
             444
                          0,
                                 Score 14.8;
Pred. No. 4
                          Mismatches
                                                    0 T; 0 U;
                                 8; DB 1;
4.9e+02;
                                                     0 Other;
                                      Length 18;
                          Indels
                          <u>.</u>
                          Gaps
                           0
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ADO26682 standard; DNA; 18

12-AUG-2004 (first entry)

Synthetic leader sequence encoding DNA SEQ ID NO:75.

phenotypic preference; phenotype modulation; leader;

Synthetic

WO2004042059-A1.

21-MAY-2004

10-NOV-2003; 2003WO-AU001487.

08-NOV-2002; 2002US-0425163P

VIND ( DOYU) QUEENSLAND

2004-411519/38. DB; ADO26683.

Constructing synthetic polynucleotide for modulating the quality of a selected phenotype displayed by an organism comprises replacing a first codon with a synonymous codon to construct the synthetic polynucleotide

Example 1; SEQ ID NO 75; 86pp; English.

RESULT 490
ADD026682
ID ADD0266
XX ADD0266
XX ADD0266
XX Synthe
XX Phenot
XX Phenot
XX Phenot
XX W02004
XX U7QU
PF 10-NOV
XX U7QU
PF 10-NOV
XX U7QU
PF CONSt.
PF 201
XX Examp.
XX Const.
PT codon
XX Const.
PT The present invention describes a method for constructing a synthetic CC polynucleotide from which a polypeptide is producible to confer a selected phenotype to an organism of interest or part in a different CC quality than that conferred by a parent polynucleotide that encodes the same polypeptide. The method comprises: (a) selecting a first codon of the parent polynucleotide for replacement with a synonymous codon, where the synonymous codon is selected on the basis that it exhibits a codon is selected on the basis that it exhibits a codon preference in test organisms or parts, where the test cryganism are selected from organisms of the same species as the organism cof interest and organisms that are related to the organisms of interest; and by replacing the first codon with the synonymous codon to construct the synthetic polynucleotide. Also described: (1) a method for determining the phenotypic preference of a first codon in an organism of the method above; (3) an organism or interest or part containing a synthetic polynucleotide constructed from the method above; (4) an organism or interest or part containing a synthetic polynucleotide constructed from the method above; (4) an

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CC comprises a regulatory polynucleotide operably linked to a tandem repeat CC of a first codon fused in frame with a reporter polynucleotide that CC encodes a reporter protein, which produces, or is predicted to produce a CC selected phenotype or a phenotype of the same class as the selected CC phenotype in the organism or part; (5) a method of modulating the quality of a selected phenotype that is displayed by an organism of interest or CC part and that results from the expression of a parent polynucleotide that CC encodes the polypeptide; (6) a method of enhancing the quality of a CC selected phenotype that is displayed by an organism of interest or part CC encodes the polypeptide; and (7) a method of reducing the quality of a CC selected phenotype that is displayed by an organism of interest or part CC and that results from the expression of a parent polynucleotide that CC encodes the polypeptide; and (7) a method of reducing the quality of a CC synthetic polynucleotide from which a polypeptide to constructing a CC synthetic polynucleotide from which a polypeptide to confer a selected phenotype to an organism of interest or part in a different CC quality than that conferred by a parent polynucleotide that encodes the polypeptide. It is useful for modulating the quality of a selected phenotype displayed by an organism or part. The present sequence encodes a synthetic leader sequence, which is used in an example from the present
```

## Sequence 18 BP; 18 A; 0 C; 0 G; 0 T; 0 U; 0 Other;

```
Best Loc
Matches
             Query Match
16;
       Similarity
Conservative
      1.1%;
0;
       Score 14.8;
Pred. No. 4.
 Mismatches
       DB 1;
.9e+02;
              Length
 0
Gaps
 0
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## 吊 S 1520 \_ AAAAAAAAAAAAAAAAA 18 **АААААААААААСТАААА** 1537

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RESULT 491
ADP44333/c
ID ADP443
XX ADP443
XX Arabid
XX IT-DEC
XX I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADP44333;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADP44333 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ВP
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09-SEP-2004 (first entry)

Arabidopsis DNA PCR primer #2.

mouse ear tissue. subtilisin-like serine Arabidopsis; PCR; primer; ss; Nucleic acid extraction; protease; ike serine protease; proteinase K; mouse tail tissue;

Arabidopsis.

US2004115658-A1

17-JUN-2004.

17-DEC-2002; 2002US-00322103

17-DEC-2002; 2002US-00322103

(WEBE/) WEBER S I (DOUG/) DOUGLAS I (KREA/) KREADER ( C D A

Weber SA, Douglas DK, Kreader 0

WPI; 2004-460399/43

comprising incubating Extraction sample in protease e of nucleic acids from tissue sample, e.g. mammalian tissue mouse tail or ear tissue, or plant tissue, comprises: sample in extraction composition buffered to specific pH and sample pH and

Example 4. SEQ ID NO 8; 19pp; English.

relates ö a method of extracting nucleic acids from a

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RESULT 492
ADP86130/c
ID ADP861
XX ADP861
XX ADP861
XX ADP861
XX CpG im
CCC cpmpol
CCC Coligor
CCC Clare University Cpc
CCC Cla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              tissue sample, comprising incubating the sample in an extraction composition that is buffered to a pH of 7.5 or greater. The extraction composition comprises a protease enzyme and does not contain a surface active agent. The protease enzyme is a subtilisin-like serine protease, which is proteinase K. The method is useful for extracting nucleic acids from a tissue sample, e.g. a mammalian tissue comprising mouse tail tissue or mouse ear tissue, a plant tissue comprising a leaf or a seed. The protease enzyme causes partial tissue breakdown such that nucleic acids are released. This sequence represents a PCR primer used to amplify Arabidopsis DNA, used in the method of the invention.
The invention relates to a class of CpG immunostimulatory oligonucleotides containing a 5'TCG motif or a CG at or the 5' end that are useful for stimulating an immune response. Oligonucleotides and compositions of the invention sure useful for treating allergy or asthma, viral and bacterial infections and cancer e.g. biliary tract cancer, breast cancer, cervical cancer, choriocarcinoma, colon cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11-DEC-2002; 2002US-0432409P.
25-SEP-2003; 2003US-0506108P.
                                                                                                                                                                                                                                                                                   New oligonucleotides, useful for treating allergy or bacterial infections, and cancer, e.g. biliary tract
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11-DEC-2003; 2003WO-US039775.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CpG immunostimulatory oligonucleotide; immune response; allergy; asthma; viral infection; bacterial infection; cancer; lymphoma; intraepithelial neoplasm; melanoma; neuroblastoma; Hodgkin's lymphoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CpG immunostimulatory oligonucleotide #1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADP86130;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADP86130 standard; DNA; 18
                                                                                                                                                                                                        Example;
                                                                                                                                                                                                                                                                                                                                                                       WPI, 2004-487902/46.
                                                                                                                                                                                                                                                                                                                                                                                                                              Krieg AM, Jurk M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO2004053104-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    carcinoma; sarcoma; gene therapy; phosphorothioate; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   09-SEP-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 18 BP; 4 A; 8 C; 2 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (COLE-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (COLE-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1025
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                                                                                                                                                                                                                                                               cervical cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COLEY PHARM GROUP INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTTTGAAGCAGAGTGGGC
                                                                                                                                                                                                  SEQ ID NO 1, 104pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
1. .18
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                                                                                                                                                                                                                                                                                                                                                                                                                              Vollmer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Phosphorothioate backbone"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1042
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Pred. No. 4.
                                                                                                                                                                                                                                                                                                                                                                                                                              Uhlmann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                              М
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                         cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                      viral and
breast
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RESULT 493
AAQ200029/c
ID AAQ200
AC AAQ200
AC AAQ200
XX deoxyr
XX deoxyr
XX deoxyr
XX deoxyr
XX ideoxyr
XX ide
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Best Local
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                                                                                                                                                                                                                                                                                                                                           modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               misc_feature
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        deoxyribonucleic acid; major groove; ethanoamino group; aziridinylcytosine; cross-linking group; o-xyloso linki: human interleukin-1 beta; inverted polarity region; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 18 BP; 0 A; 0 C; 0 G; 18
                                                25-MAY-1990;
14-JAN-1991;
                                                                                                                           25-MAY-1990;
                                                                                                                                                                           12-DEC-1991.
                                                                                                                                                                                                                          WO9118997-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-APR-1992
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAQ20029 standard; DNA; 19
     (GILE-) GILEAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1520 AAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
     SCIE INC
                                                   90US-00529346.
91US-00640654.
                                                                                                                           90US-00529346.
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                                                                                                                                                                                                                                                                                                                                                                                                   /*tag=
/mod_ba
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/label=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     mod base= OTHER
                                                                                                                                                                                                                                                                                                                                                                         note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          note= "see
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           mod_base= OTHER
note= "N-methyl-8-oxo-2'-deoxyadenine"
                                                                                                                                                                                                                                                                                                                              *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1.1%;
                                                                                                                                                                                                                                                                                                                                                          _base= OTHER
e= "N-methy1-8-oxo-2'-deoxyadenine"
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                                                                                                                                                                                                                                                                                                    base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "N4N4-ethanocytosine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "N-methyl-8-oxo-2'-deoxyadenine"
                                                                                                                                                                                                                                                                          "N4N4-ethanocytosine"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       comments"
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Pred. No. 4
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4.9e+02;
2;
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RESULT 494
AAQ30373/c
ID AAQ303
XX AAQ303
XX AQ303
XX Oligom
XX Oligom
XX Human
CT OT-DEC
XX Oligom
XX Human
KW Human
KW RSV; H
XX Synthe
XX FT modifi
FT modifi
FT misc_f
FT misc_f
FT modif:
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Best Local Similarity
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07-DEC-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This oligomer contains an inverted polarity region formed from an o-xyloso dimer synthon. Residues 13 and 14 are linked via an o-xyloso group (i.e. nucleotides that have xylose sugar linked via the o-xylene ring). The sequence is designed to target the Human interleukin-1 beta gene beginning at nucleotide 7378 and will covalently cross-link to it via the N4N4-ethanocytosine groups. See also AAQ20026-Q20030
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New sequence-specific non-photo-activated crosslinking agents - bind the major groove of duplex DNA and are esp. useful for treating latent infections e.g. HIV.
                                                                                                                             modified_base
                                                                                                                                                                                                                                                                                                                                                                    Human interleukin - 1 beta gene; herpes simplex; AIDS; modified; HIV, RSV; HPV; malignancy; hepatitis; inflammation; ss.
                                                                                                                                                                                                                                                                                                                                                                                                         Oligomer HUM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAQ30373;
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                                  modified_base
                                                                               modified_base
                                                                                                                                                                            misc_feature
                                                                                                                                                                                                               misc_feature
                                                                                                                                                                                                                                                             modified_base
                                                                                                                                                                                                                                                                                                                                               Synthetic
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                                                                                                                                                                                                                                                                                                         modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                      beta 113 for forming triplex with IL-1 target duplex
                                                                                                                                                                                                                                                                                                                                                                                                                              (revised)
(first entry)
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                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
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/note= "o-xyloso dimer synthon linkage"
/1...19
  /mod_base= OTHER
/note= "OTHER= N
                                                           /*tag=
                                                                                                          mod_
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                        *tag=
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                                                                                             notes
                                                                                                                    *tag=
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                                                                                                          base= OTHER
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                                                                                                                                                                                                                                                                            "OTHER=
                                                                                              "OTHER=
                                               "OTHER=
 "OTHER= N6 methyl-8-oxo
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Pred. No. 4.6e+02;
0; Mismatches 2
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                                                                                              N6 methyl-8-oxo 2'
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                                               methyl-8-oxo
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                                                                                                                                                                                                                                                                            2' deoxyadenine"
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RESULT 495
AAQ30375/c
ID AAQ303
XX AAQ303
XX AAQ303
XX 25-MAR
DT 25-MAR
DT 07-DEC
XX
DE Oligom
XX Human
KW RSV; H
XX
OS Synthe
XX Synthe

(revised) (first en

entry)

Oligomer HUM 25-MAR-2003 07-DEC-1992 AAQ30375;

AAQ30375 standard; DNA; 19

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Human interleukin - 1 beta gene; herpes simplex; AIDS; modified; HIV; RSV; HPV; malignancy; hepatitis; inflammation; ss.

beta 115 for forming triplex with IL-1 target duplex.

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                                                                                                                                                               The synthetic oligomer is capable of forming a triplex at physiological CC pH with a purine rich target sequence by coupling into the major groove of the duplex. The specific target sequence of this oligomer is the human cC interleukin -1 beta gene beginning at nucleotide 7378 contg. a purine crich sequence concd. on one strand of the duplex. The oligomer, and cothers like it are useful in diagnosis and therapy of diseases cC characterised by specific DNA duplex targets, e.g. HPV, HER; HIV, chepatitis B, herpes, malignant tumours and inflammation. The triple cC helices form under mild conditions thus assays may be carried out without cC subjecting the test specimen to harsh conditions. The oligomer contains an inverted polarity region formed from an o-xyloso dimer synthon. The cC linking gp. is o-xyloso (nucleotides have the 3' positions of xylose car silnked via the o-xylene ring). Two nucleotides are coupled through a xylene residue to form the dimer synthon. The additional modifications can yrender the oligomer stable to nuclease activity. The oligomer is able to inhibit gene expression, as verified by in vitro systems. See also carlots 25501 and AAQ30226-448. (Updated on 25-MAR-2003 to correct PN
                                                           Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     08-APR-1991;
17-APR-1991;
17-APR-1991;
17-APR-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New oligomers contg. modified bases - doublet in a DNA duplex, for treating
                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 12; Page 70; 77pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              herpes malignancy and inflammation.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       27-SEP-1991;
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18-JAN-1991;
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                    TTAATTAAAAAAAAAAAA 1531
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                                                             Conservative
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91US-00686547.
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                                                                                                                        G; 14 T; 0 U; 0 Other;
                                                                         Score 14.8; DB 1;
Pred. No. 4.6e+02;
                                                             Mismatches
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                                                                                         DB 1;
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The synthetic oligomer is capable of forming a triplex at physiological CC pH with a purine rich target sequence by coupling into the major groove of the duplex. The specific target sequence of this oligomer is the human CC interleukin -1 beta gene beginning at nucleotide 7378 contg. a purine CC rich sequence concd. on one strand of the duplex. The oligomer, and CC exists sequence concd. On one strand of the duplex. The oligomer, and CC characterised by specific DNA duplex targets, e.g. HPV; HER; HIV, CC helices form under mild conditions thus assays may be carried out without CC subjecting the test specimen to harsh conditions. The oligomer contains CC an inverted polarity region formed from an o-xyloso dimer synthon. The CC linking gp. is o-xyloso (nucleotides have the 3 positions of xylose CC sugars linked via the o-xylene ring). Two nucleotides are coupled through CC axylene residue to form the dimer synthon. This additional modifications CC may render the oligomer stable to nuclease activity. The oligomer is able to inhibit gene expression, as verified by in vitro systems. See also CC AQ25445-25501 and AAQ30226-448. (Updated on 25-MAR-2003 to correct PN
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17-APR-1991;
27-SEP-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New oligomers contg. modified bases - which form a triplex with G-C doublet in a DNA duplex, for treating and diagnosing HIV, hepatitis, herpes malignancy and inflammation.
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91US-00766733
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91US-00686546.
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91US-00643382.
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14. .20
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RESULT 496
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                                                                                                                                                                                                                                                                                                                                                                            A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AQ75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
Analysis; gene expression; reverse transcription; primer; cDNA; aggregate; restriction enzyme; ss.
                                              Reverse transcription primer used in cDNA analysis technique.
                                                                                04-AUG-1995
                                                                                                              AAQ75551;
                                                                                                                                            AAQ75551 standard; DNA; 19 BP
                                                                                                                                                                                                                                                                                                                                                   Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Analysis of cDNA and gene expression - by digestion with restriction enzymes.
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ilarity 88.9%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Page 5; 11pp; Japanese
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                                                                               entry)
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Pred. No. 4.6e+02
                                                                                                                                                                                                                                                                                      Score 14.8; DB 1;
Pred. No. 4.6e+02;
0; Mismatches 2;
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RESULT 498
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A method for the analysis of cDNA comprises (a) preparing an aggregate of double-stranded cDNAs by using an aggregate of mRNAs and a plural type (labelled reverse transcription primers (GENESEQ files AAO75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
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                                                         Disclosure;
                                                                                                                                                                                                                                                                                                                                                        16-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Analysis; gene expression; reverse transcription; primer; cDNA; aggregate; restriction enzyme; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Reverse transcription primer used in cDNA analysis technique.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAQ75554 standard; DNA; 19 BP
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                                                                                                                                                                                                                                                                                                    16-APR-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic
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                                                                                                              digestion with restriction enzymes.
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n with restriction enzymes
                                                       Page 5; 11pp; Japanese
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                                                                                                                                                                                                                                                                                                    93JP-00112515
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Pred. No. 4.6e
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Best Local S
Matches 16
                                               The sequences given in AAT10742-67 are synthetic oligonucleotides which device (ED) of the construction of the electronically self- addressable device (ED) of the invention. The ED comprises a substrate, an electrode or opt. a number of electrodes supported by the substrate, acurrent source operatively connected to the electrode and an attachment layer adjacent to the electrode which is permeable to a counterion but not permeable to a molecule capable of insulating or binding to the electrode. The attachment layer is capable of attaching a macromolecule. The ED is used for genetic typing and comprises a number of electronically addressable locations each comprising an electrode, and a binding entity, such as one of these probes, attached to each of the locations capable of detecting the presence of a genetic sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AAQ75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Electronically self-addressable device; ED; electrode; current source; attachment layer; permeable; counterion; genetic typing; probe;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Electronically self-addressable device -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1996-097582/10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Heller
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    detection;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               09-SEP-1996
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                                                                                                                                                                                                                                                                                                                                                                                                                                         1; Page 61; 155pp; English.
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Pred. No. 4.6e
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Best Local Similarity
                                                                                                                                                                                                                                                                               The invention relates to aminooxy-modified(oligo)nucleotides or nucleosides which are useful as therapeutics, diagnostics, and research reagents. They may be used, e.g., for modulation of the ras gene and may be able to modulate the process of transformation from normal to malignant cell growth. They may be prepared using known methods. Inclusion of the aminooxy moisties can improve binding of oligonucleotides to complementary strands. The moisties can also provide conjugation sites useful for conjugation of useful ligands (e.g. reporter groups and groups for modifying uptake, distribution or other pharmacodynamic properties) to oligonucleotides. The present sequence represents an example of an aminooxy-modified oligonucleotide disclosed
                                                                                                                                                                                                        Sequence 19 BP; 0 A; 0 C; 0 G; 19 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 84; 131pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     to complementary strands and
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30-JAN-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 phosphorothioate; ras gene; malignant cell
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                                                                                                                                                                                                                                                         in the specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (ISIS-) ISIS PHARM INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nuclease resistance; reporter group; ss.
                                                   1520
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19
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                                                                                                       16;
                                                                                                                            Similarity
ARARARARARARA 2
                                              AAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
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98US-00016520
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /note= "5-methyl, 2'-aminooxyethoxy-thymidine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  oligonucleotide.
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                                                                                                                            1.1%;
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                                                                                                    Score 14.8; D
Pred. No. 4.6e
O; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           improved resistance to nuclease.
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Pred. No. 4.
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                                                                                                                               4.6e+02
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                                                                                                                                                     DB 1; Length 19;
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RESULT 502
AAX81316/c
ID AAX813
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AC AAX813
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AC AAX813
XX
DT 20-AUG
XX
DE 5' ami
XX
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                                                                                                                                                                                               Query Match 1.1%;
Best Local Similarity 88.9%;
Matches 16; Conservative
                                                                                                                                                                                                                                                                     The invention relates, inter alia, to a method of preparing an oligonuclectide by coupling (1) a new nucleoside having a protected 5'-hydroxy group and at the 3'-position a group of formula -CH2-P(OR3)-NR4R5, with (2) a nucleoside or oligonucleotide having a free 5'-hydroxy group, to give (3) a precursor having an internucleoside linkage of formula -CH2-P(OR3)-O-; and converting this to a linkage of formula -CH2-P(OR3)-O-; solution of the present sequence is a specific example of an oligonucleotide so prepared
                                                                                   1316/c
AAX81316
                                                                                                                                                                                                                                                                                                                                                                                                            New tetra:hydro:furan derivatives - oligo:nucleotide(s).
                                     20-AUG-1999
                                                            AAX81316;
                                                                                                                                                                                                                                                Sequence 19 BP; 0 A; 0 C; 0 G; 19 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                     Example 12; Page 29; 37pp; English.
                                                                                                                                                                       1520 AAAAAAAAAAAGTAAAA 1537
                                                                                                                                                 19
                                                                                    standard; DNA; 19
                                                                                                                                                 AAAAAAAAAAAAAAAA 2
                                     (first entry)
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//note= "these T residues are formed as part of a
//note= "these T residues are formed as part of a
conventional phosphoramidite oligonucleotide synthesis
process but using as the reactant a thymosine nucleosi
having at the 3'-position a group of formula -CH2-
P(OCH2CH2CN)-N(iPr)2"
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                                                                                      BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        modified internucleotide linkage
                                                                                                                                                                                                 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Altmann
                                                                                                                                                                                                            Score 14.8; DB 1;
Pred. No. 4.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                          useful in the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Douglas
                                                                                                                                                                                                                        Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                          synthesis
                                                                                                                                                                                                  Indels
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amino oligonucleotide probe T-2

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RESULT 503
AAXO2601/C
ID AAXO26
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AC AAXO26
XX
DT 07-MAY
XX
DE PCR DT
XX
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                                                                                                                                                                                                                                                                                                                                                                                             control multi-step and multiplex molecular biological reactions in comitroscopic formats. A key aspect of this inventions is played by the ion comparation layer which overlies the electrode. This permeation comparates the attachment of nucleic acids to permit immobilization but comparates the attached oligonucleotides and hybridized target DNA commediately at the electrode surface. The microelectronic device is designed and fabricated to actively carry out and control reactions such comparation, diagnostics and biopolymer synthesis. The device can nucleic acid hybridizations, antibody/antigen reactions, sample comparation, diagnostics and biopolymer synthesis. The device can continue the transport and attachment of specific microcolocations. The device can subsequently control the transport and reactions compared to contents at the addressed specific micro-locations. The device is able to concentrate analytes and reactants, remove nonceptically bound molecules, provide stringency control for DNA control reactions and improve the detection of analytes. The
                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                Query Match
Best Local
                                                                      07-MAY-1999
                                                                                                                                          AAX02601 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The specification describes a self-addressable, self-assembling microelectronic device which is designed to actively carry out and control multi-step and multiplex molecular biological reactions in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sosnowski RG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Microelectronic device; multi-step reaction; microscopic format; ion-permeable permeation layer; electrode; electrical control; transport; attachment; binding; DNA/RNA hybrid; probe; ss.
 Plant artificial chromosome; PLAC; foreign gene expression; trait;
                                    PCR primer #32
                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 1; Page 90; 179pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-DEC-1997;
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                                                                                                                                                                                                                                                                                                                Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      microelectronic device designed to carry out and control multi-step multiplex molecular biological reactions in microscopic format.
                                                                                                                                                                                                                               19
                                                                                                                                                                                                                                                                 AAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                                                                                                                                                                                    19 BP; 0
                                                                                                                                                                                                                                                                                                   Conservative
                                                                      (first entry)
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                                                                                                                                                                                                                                                                                                                                                                    A; 0 C; 0
                                                                                                                                                                                                                                                                                                                1.1%;
                                                                                                                                          DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ΨF,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     English.
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                                                                                                                                                                                                                                                                                                                                                                    G; 19 T; 0 U;
                                                                                                                                                                                                                                                                                                                Score 14.8; DB 1; Length 19; Pred. No. 4.6e+02;
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                                                                                                                                                                                                                                                                                                   Mismatches
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                                                                                                                                                                                                                                                                                                                                                                    0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                               This invention describes a recombinant DNA construct which comprises a CC functional Arabidopsis thaliana centromere. This centromeric region can compute the production of plant artificial chromosomes (PLAC's) which can be used for the production of plants which can express foreign genes. PLAC's can be used to provide desirable traits such as herbicide compared to the production of plants which can express foreign genes. PLAC's can be used to provide desirable traits such as herbicide compared to the provide desirable traits such as herbicide compared to the presence (viral, bacterial, fungal, nematode), stress concerns the presence of the production. The centromeric regions can also be used to detect the presence of similar centromeric regions in other plants or animals. This sequence is a PCR primer used in the method of
                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            herbicide; resistance; tolerance; insect; disease; stress; drought; heat; chilling; freezing; salt; moisture; oxidative; yield; food content; physical appearance; male sterility; drydown; standability; prolificacy;
                                     Enzyme-specific cleavable polynucleotide substrate; quenched fluorescent moiety; biological assay; detection; microorganism; sterilization assurance; nuclease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New isolated Arabidopsis thaliana centromeres - used for the production of plant artificial chromosomes for the production of transgenic plants
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Page 83; 150pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               03-JUN-1997;
05-FEB-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 starch; detection; PCR primer; ss.
                                                                                                 Polynucleotide
                                                                                                                                07-SEP-1999
                                                                                                                                                              AAX81927;
                                                                                                                                                                                            AAX81927 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                          Sequence 19 BP; 3 A; 8 C; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          having desirable agronomic traits.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-DEC-1998.
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                                                                                                                                                                                                                                                                                                1535 AAAGGGAAGGCAGGATGT 1552
                                                                                                                                                                                                                                                                      18
                                                                                                                                                                                                                                                                                                                              16;
                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                              Conservative
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                                                                                                                                (first entry)
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98US-0073741P.
                                                                                                  strand with
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                                                                                                  amino
                                                                                                                                                                                                                                                                                                                                                                                          G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                <u>,</u>
                                                                                                                                                                                                                                                                                                                                                            Score 14.8;
                                                                                                                                                                                                                                                                                                                                               Pred. No. 4.6e+02
                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                               DB 1;
                                                                                                                                                                                                                                                                                                                                                             Length 19;
                                                          identification;
                                                                                                                                                                                                                                                                                                                                0
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RESULT 505
AAZ01369
ID AAZ013
XX
AC AAZ013
XX
AC AAZ013
XX
DT 27-SEP
XX
DB PCR pr
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                                                                                                                                                                                                                                                                                  The specification describes an enzyme-specific cleavable polynucleotide substrate bearing quenched fluorescent moleties. The enzyme-specific cleavable polynucleotide substrate is useful in biological assays for detection and identification of microorganisms, sterilization assurance, pharmaceutical discovery, enzyme assays, immunoassays and other biological assays. The method provides a rapid and convenient approach for detection and identification of microorganisms. It can be adapted to sequence-dependent or sequence-independent tests. The invention provides improved accuracy, faster detection, and overall lower cost in detection and identification of microorganisms. The presence of nuclease is measured more accurately and sensitively by red-shifting the emission wavelength from far UV region (350-400 nm) to the 500-600 nm region of the electromagnetic spectrum and reducing the effect of background signal levels of intact reagents. The present sequence is used in the course of the course of the sequence of nuclease is
                                                                                                                                                                                                Matches
                                                                                                                                                                                                                       Query Match
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                                                                                                                                                                                                                                                 Sequence 19 BP; 0 A; 0 C; 0 G; 19 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 2; Page 20; 34pp; English
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 PCR primer for PG1 biallelic marker 4-52-163.
                           27-SEP-1999
                                                     AAZ01369;
                                                                             AAZ01369 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    fluorescent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               An enzyme-specific cleavable polynucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       09-JAN-1998;
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                                                                                                                                                                                                             Local Similarity
                                                                                                                                                                     1520 AAAAAAAAAAAGTAAAA 1537
                                                                                                                                            19
                                                                                                                                                                                               16;
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                         (first entry)
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/note=
(dT)"
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/note=
(dT) "
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/note=
(dT)"
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                                                                            DNA;
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"amine-modified
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                                                                                                                                                                                                           Score 14.8; DB 1;
Pred. No. 4.6e+02;
                                                                                                                                                                                                Mismatches
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                                                                                                                                                                                                                       Length 19;
                                                                                                                                                                                               Indels
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                                                                                                                                                                                               Gaps
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AAZ01358;

PCR primer for 27-SEP-1999

PG1 biallelic marker 4-4-187

(first entry)

Synthetic

human; ss.

Homo sapiens.

WO9932644-A2

PG1 gene; biallelic marker; PCR primer; PG1-related biallelic marker; cancer; prostate cancer; diagnosis; therapy; prostate specific antigen;

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RESULT 506
AAZO1358/C
ID AAZO13
XX AAZO13
XX AAZO13
XX AAZO13
XX AAZO13
XX 27-SEP
XX PG1 ge
KW PG1 ge
KW Cancer
KW PSA; h
XX AX
OS Synthe
OS Homo s
XX XX WO9932
XX
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Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to a mammalian PGI gene and protein, and a set of PGI biallelic markers. The PGI polynucleotide and biallelic markers are used in a hybridisation assay, a sequencing assay, or in an allelespecific amplification assay for determining the identity of a nucleotide at a PGI-related biallelic marker. The methods can be used to detect and to assess the risk of developing cancer or prostate cancer. Early-stage diagnosis of prostate cancer relies on prostate specific antigen (PSA) dosage. However, the effectiveness of this is limited due to its inability to discriminate between malignant and non-malignant affections of the organ. A need exists for both a reliable diagnostic procedure which would enable early-stage diagnosis, and for preventative and curative treatments of the disease. The PGI gene can be used for detection of prostate cancer, and the risk of developing it in the future, and can also be used to determine therapies for the disease
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09-SEP-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 8 A; 1 C; 3
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Pred. No. 4.
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RESULT 507
AAZ61390/c
ID AAZ613
XX AAZ613
XX AZ613
XX DI 19-JUN
XX Oligom
XW Oligom
XW Oligom
XW Oligom
XW Oligom
XW MUClea
XX Synthe
FT modifi
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Best Local
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                                                                                                                                                           modified_base
                                                                                                                                                                                                                                 Oligomeric compound; 2'-O-modified ribosyl nucleoside; 3' endo geometry; nuclease resistance; phosphodiester; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         which would enable early-stage diagnosis, and for preventative and curative treatments of the disease. The Pol gene can be used for detection of prostate cancer, and the risk of developing it in the future, and can also be used to determine therapies for the disease
                                     modified_base
                                                                             modified_base
                                                                                                                     modified_base
                                                                                                                                                                                                                                                                       Uniform phosphodiester oligonucleotide.
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09-SEP-1998;
                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                                                                                                                                   19-JUN-2000
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llarity 88.9%;
Conservative
                                                                                                                                                                                                                                                                                                   (first entry)
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98US-0099658P
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"2'-modified
                                                                                             b
"2'-modified
                "2' -modified T"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  G; 19 T; 0 U;
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Pred. No. 4.6e
O; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         and biallelic markers derived
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
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07-AUG-1998;

98US-00130566

06-AUG-1999;

99WO-US017895

(ISIS-) ISIS PHARM INC

17-FEB-2000.

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RESULT 508
AAZ61404/c
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Best Local 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present sequence represents an uniform phosphodiester oligonucleotide. The specification describes oligomeric compounds containing 2'-O-modified ribosyl nucleosides. The 2'-O-modified nucleosides include ring structures that position the sugar moiety of the nucleosides preferentially in 3' endo geometries. The modified oligomeric compounds have increased binding affinity and increased nuclease resistance. The oligomeric compounds can be used in diagnostic, therapeutic and research reagents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel :
                                                                                                                                                           modified_base
                                                                                                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                                                     nuclease resistance;
                                                                                                                                                                                                                                                                Oligomeric compound;
                                                                                                                                                                                                                                                                                       2'-O-modified ribosyl oligonucleotide with phosphodiester linkages.
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                                                                                                    WO200008044-A1.
                                                                                                                                                                                               misc feature
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 2'-O-aminoethyloxyethyl modified nucleosides and oligonucleotides
in diagnostic, therapeutic and research reagents.
                                                                                                                                                                                                                                                                                                                                                                                                                      19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            n 1.1%;
Similarity 88.9%;
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                                                                                                                                                                                                                                                                                                              (first entry)
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                                                                                                                                                       /*tag= a
/note= "nucleosides linked by
16. .19
                                                                                                                         uridine"
                                                                                                                                  /*tag= b
/note= "2'-O-[2-N,N-dimethylaminoethyl)oxyethyl-5- methyl
                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                     2'-O-modified ribosyl phosphorothicate; ss.
                                                                                                                                                                                                                                                                                                                                                              ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 14.8; DB 1;
Pred. No. 4.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                  nucleoside; 3'
                                                                                                                                                                       phosphodiester linkages"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
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RESULT 509
AAC62422/c
ID AAC624
XX AAC624
XX T19 di
XX Detern
PH 20-JAN
XX (ISIS-
XX Leeds
XX Leeds
XX Detern
PH 1 induce
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Best Local Similarity
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                                                    The present invention is concerned with methods of determining the nuclease stability of oligomeric compounds using capillary-gel electrophoresis and laser-induced fluorescence. The methods are useful the polymerase chain reaction (PCR), molecular cloning and disease diagnosis and treatment. The present sequence was used in a demonstration the methods of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           preferentially in 3' endo geometries. The modified oligomeric compounds have increased binding affinity and increased nuclease resistance. The oligomeric compounds can be used in diagnostic, therapeutic and research
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        modified ribosyl nucleosides. The oligomeric compound contains phosphodiester linkages. The 2'-O-modified nucleosides include structures that position the sugar moiety of the nucleosides
                                                                                                                                                                                                                                           Example 3; Col 19-20; 14pp; English
                                                                                                                                                                                                                                                                                                                     Determining the nuclease stability and relative binding affinity of an oligomeric compound comprises capillary gel electrophoresis using lase:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    molecular cloning;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAC62422;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAC62422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Page 51;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Manoharan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    diester
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in diagnostic, therapeutic and research reagents.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAAAAAAAAAAAAAAAA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cummins LL;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 0 A; 0 C; 0 G; 19 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                nuclease stability assay;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    disease diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 in nuclease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 14.8;
Pred. No. 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               stability assay.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       disease treatment;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                polymerase chain reaction;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                U; 0 Other;
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DT 10-SEP
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ARAB6030/C
ID ARAB60
XX ARAB60
AC ARAB60
XX ARAB60
XX C
DT 04-DEC
XX Ribozy
XX W02000
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XX W02000
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PR 06-DEC
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                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to a hairpin or hammerhead ribozyme, designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1. Representative examples of ribozyme recognition sites are given in AAA82415 to AAA86787. The ribozyme of the invention is useful for inhibiting restences by introduction of the ribozyme into cells. The ribozyme is resistant to endonuclease activity and hence is efficient in restences treatment
                                                                          10-SEP-2001
                                                                                                                                                                        AAZ72936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 101; 109pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    04-DEC-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     04-DEC-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (-UMMI)
                                                                                                                                                                                                                                                                                                                                                                                                                        Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               hairpin and hammerhead ribozyme for inhibiting restenosis, cleaves encoding a cyclin or cell-cycle dependent kinase other than CDK1, a and Cyclin B1.
                                                                                                                                                                                                                                                                                                                                              1305
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16; Conserv
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                                                                                                                                                                        standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                              ATTTTTTTTTTTCAGA 1322
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BP; 10 A; 2 C; 3 G; 4 T; 0 U;
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                                                                          (first entry)
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Pred. No. 4.6e+0
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                              AAZ65654 to AAZ69578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ77440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other treatment. N.B. The SEQ ID NOB 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and 3367, are not actually given a sequence in the Sequence Listing from the
                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            map
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation; haplotyping; hybridisation; dentification; SNP; PCR primer; amplification; single nucleotide polymorphism; SNP; PCR primer;
                                                                            Arabidopsis thaliana
                                                                                                                                          Arabidopsis thaliana chromosome centromere associated primer #89
                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2000-013267/01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             diagnosis; ss.
                                                WO200055325-A2
                                                                                                           Centromere;
                                                                                                                                                                           20-MAR-2001
                                                                                                                                                                                                          AAF22205;
                                                                                                                                                                                                                                      AAF22205
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21-APR-1998;
23-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                  16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             invention
                                                                                                                                                                                                                                                                                                                                        TCTAACTTCCATTTTTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                              19 BP; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Page 1785; 2745pp;
                                                                                                                                                                                                                                       standard; DNA; 19
                                                                                                                                                                                                                                                                                                                      TCTCATTTCCATTTTTCC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Blumenfeld
                                                                                                             michrosome;
                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                         (first entry)
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98US-0109732P.
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                                                                                                                                                                                                                                                                                                                                                                                               1.1%;
                                                                                                              vector;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Chumakov
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                                                                                                                                                                                                                                                                                                                                                                                Score 14.8; D
Pred. No. 4.6e
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                 4.6e+02
                                                                                                                                                                                                                                                                                                                                                                                                              DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                              0 Other;
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RESULT 513
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Best Local S
Matches 16
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13-SEP-1999;
17-SEP-1999;
16-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention relates to a recombinant DNA construct of a plant (Arabidopsis thaliana) centromere. The construction sare useful for producing stably inherited michrosomes which can serve as vectors for the construction of transgenic plant and animal cells expressing selected proteins such as hormones, enzymes, interleukins, clotting factors,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Recombinant DNA construct comprising a plant centromere, useful for producing stably inherited michrosomes which can serve as vectors for construction of transgenic plant and animal cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           proteins such as hormones, enzymes, intercytokines, antibodies, and growth factors
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01-APR-1999;
                                                 WO200004189-A1.
                                                                                                                  misc_RNA
                                                                                                                                                                                                                                      modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               research reagent; therapeutic;
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99US-0127409P.
99US-0134770P.
99US-0153584P.
99US-0154603P.
99US-0172493P.
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/note= "Optionally a
(2-methoxyethyl)"
19
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/note= "Optionally
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/note= "Phosphorothioate internucleotide linkage"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 14.8; DB 1;
Pred. No. 4.6e+02;
0; Mismatches 2
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                                                                                                                                                                      all 3'-O-(2-methoxyhexyl) or all 2'-O-
                                                                                                                                                                                                                                                                                           phosphorothicate
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gene therapy; ISIS #
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This sequence represents a modified oligonucleotide used in the course of the invention. The invention relates to oligonucleotides comprising nucleotides covalently linked together by internucleotide linkages where at least 1 nucleotide is linked to adjacent nucleotide by a 2',5'- internucleotide linkage and bears a 3'-substituent. The oligonucleotides can be used in gene therapy and are also useful in antisense methodologies, diagnostics, therapeutics and as research reagents
                                                                                                                                                                                                                                                                                                                                          modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                             misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel modified oligonucleotides, useful in antisense diagnostics, therapeutics and as research reagents.
                                                   14-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic
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     (ISIS-) ISIS PHARM INC
                                                                                                                                                     27-JAN-2000.
                                                                                                                                                                                                    WO200004189-A1
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/note= "Optionally all
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16. .19
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/note= "Phosphorothioate
15. 19
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/note= "Optionally all 3'-O-(2-methoxyhexyl)
(2-methoxyethyl)"
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Pred. No. 4.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
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RESULT 515
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Matches
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The invention relates to aminooxy-modified nucleosides and oligonucleotides that elicit RNase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the invention. The invention relates to oligonucleotides comprising nucleotides covalently linked together by internucleotide linkages where at least 1 nucleotide is linked to adjacent nucleotide by a 2',5'- internucleotide by an 2',5'- internucleotide and bears a 3'-substituent. The oligonucleotides can be used in gene therapy and are also useful in antisense methodologies, diagnostics, therapeutics and as research reagents
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                                                Example
                                                                                               Aminooxy-modified nucleosides and oligonucleotides useful in diagnostic, therapeutic and research reagents and for modulating the expression of
                                                                                                                                             WPI; 2000-224020/19.
                                                                                                                                                                             Manoharan M,
                                                                                                                                                                                                                                           07-AUG-1998;
                                                                                                                                                                                                                                                                         09-AUG-1999;
                                                                                                                                                                                                                                                                                                          17-FEB-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Modified nucleoside; aminooxy group;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Modified T-containing oligonucleotide,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19-JUN-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This sequence represents a modified oligonucleotide used in the course of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 54; Page 59; 75pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel modified oligonucleotides, useful in antisense methodologies, diagnostics, therapeutics and as research reagents.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Manoharan M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     hybridisation;
                                                                                                                                                                                                             (ISIS-) ISIS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -deoxy-erythro-pentofuranosyl sugar moiety; nuclease resistant;
oridisation; binding affinity; ss.
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                                              99; Page 120; 195pp; English.
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                                                                              'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  standard; DNA; 19
                                                                            organisms
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                                                                                                                                                                                                             PHARM INC
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                                                                                                                                                                           Cook PD,
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                                                                                                                                                                                                                                                                         99WO-US017988
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                                                                                                                                                                                                                                                                                                                                                                                                    /*tag=
                                                                                                                                                                                                                                                                                                                                                                      note= "These nucleotides are substituted with 2'-O-{2-
N-(2-amino)ethyl-N-(methyl)]aminooxyethyl} group"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    entry)
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                                                                                                                                                                             Prakash
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Pred. No. 4.6e+02;
0; Mismatches
                                                                                                                                                                             ŢP,
                                                                                                                                                                             Kawasaki AM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID NO:14.
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RESULT 516
AAA88952/c
ID AAA889
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XX Synthe
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FT modifi
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Best Local S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Oligonucleotide; nuclease resistance; dermatological; cytostatic; virucide; diagnosis; DNA-RNA hybrid; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         nucleosides have increased nuclease resistance and increased binding affinity to a complementary strand. The present sequence represents an oligonucleotide containing nucleotides substituted with a 2'-O-{2- {N-(2-amino)ethyl-N-(methyl)}aminooxyethyl} group
                            03-MAY-2000; 2000WO-US011913.
                                                                                                                                                                                                                                             modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          modified_base
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                                                                             09-NOV-2000.
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                                                                                                                                                                                                                                                                                                                              RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1520 АЛАЛАЛАЛАЛАГТАЛАЛ 1537
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16;
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Similarity 88.9%;
16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
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/mod_ba
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                                                                                                                                                                                                                                                                                                                                                       _base= OTHER
== "2'-O-(2-methoxyethyl)thymidine"
                                                                                                                                                                             base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22115.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "phosphorothicate linkage
                                                                                                                                                                                                                                                                                                                                                                                                                                                       "2'-0-(2-methoxyethyl)thymidine"
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RNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 14.8; D
Pred. No. 4.6e
O; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         psoriasis; antipsoriatic;
antibacterial; fungicide; therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4.6e+02
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RESULT 517
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Oligonucleotide ISIS 22115 contains a mixed phosphodiester and phosphorothioate backbone and has 2'-O-(2-methoxyethyl) Chemistry. It was used in experiments to determine the effects of snake venom phosphodiesterase and liver homogenate on the stability of oligonucleotides. Novel oligonucleotides of the invention have both A-and B-form conformational geometry. The A-form geometry modulates the binding affinity and nuclease resistance of the oligonucleotide. The B-form geometry allows the oligonucleotide to serve as substrate for RNase-H when bound to a target nucleic acid strand. The oligonucleotides can be used to treat psoriasis and other inflammatory skin conditions, skin cancers and viral, bacterial and fungal infections, and in various
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New oligonucleotides containing sequences with A and B geometry, used to treat and diagnose e.g. psoriasis, skin cancers and viral, fungal and bacterial infections, bind to single stranded RNA or DNA.
                                                                                                                                                                                                                                                                                                      Oligonucleotide; nuclease resistance; dermatological; cytostatic; virucide;
                        modified_base
                                                                                      modified_base
                                                                                                                                                         modified_base
                                                                                                                                                                                                                         modified_base
                                                                                                                                                                                                                                                                Synthetic.
                                                                                                                                                                                                                                                                                          diagnosis;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              03-MAY-1999;
                                                                                                                                                                                                                                                                                                                                             2'-Modified chimeric oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                            AAA88965
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           diagnostic applications
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1520 АЛАЛАЛАЛАЛАСТАЛАЛ 1537
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                        /note= "2'----(OH),
                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                 /*tag= b
/*mod_base= OTHER
/note= "2'-modified thymidine,
/note= "2'-ara-(OH), -2'-ara-(OMe)
                                                              /*tag= c
/mod_base= OTHER
                                                                                                                                                                    /mod_base= OTHER
/note= "2'-modified thymidine, i.e.
[F], 2'-ara-(OH), -2'-ara-(OMe)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1.1%;
                                      "2'-modified thymidine, i.e.
'-ara-(OH), -2'-ara-(OMe)"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 G; 19 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 14.8; DB 1
Pred. No. 4.6e+02
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                                                                                                                                                                                                                                                                                                      psoriasis; antipsoriatic;
antibacterial; fungicide; therapy;
                                                                                                          1.e.
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Best Local S
Matches 16
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                                                                                                                                                                                                                                                                                                                                                                                                          Oligonucleotide; nuclease resistance;
                                                                         modified_base
                                                                                                                                                                     modified_base
                                                                                                                                                                                                                                                 modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                03-MAY-1999;
                                                                                                                                                                                                                                                                                                                                   Synthetic
                                                                                                                                                                                                                                                                                                                                                                                     diagnosis;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9905-00303586
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     /mod_b
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                                                                                                                                                           *tag=
                                                                                                                                                                                                       note= "phosphorothicate
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_base= OTHER
== "3'-O-(2-methoxyethyl)thymidine"
                                                                                                      _base= OTHER
== "3'-O-(2-methoxyethyl)thymidine"
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Pred. No. 4.6e+02;
0; Mismatches 2
                                                                                                                                                                                                                                                                                                                                                                                                            psoriasis; antipsoriatic;
antibacterial; fungicide; therapy;
                                                                                                                                                                                                          linkage"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length
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RESULT 519
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                    oligonucleotide ISIS 22112 contains a phosphorothioate backbone and has 3'-O-(2-methoxyethyl) chemistry. It was used in experiments to determine the effects of snake venom phosphodiestrase and liver homogenate on the stability of oligonucleotides. Novel oligonucleotides of the invention have both A- and B-form conformational geometry. The A-form geometry modulates the binding affinity and nuclease resistance of the oligonucleotide. The B-form geometry allows the oligonucleotide to serve as substrate for RNase-H when bound to a target nucleic acid strand. The oligonucleotides can be used to treat psoriasis and other inflammatory skin conditions, skin cancers and viral, bacterial and fungal infections,
                                                                         Synthetic
                                                                                                 Oligonucleotide; nuclease resistance; psoriasis; antipsoriatic; dermatological; cytostatic; virucide; antibacterial; fungicide; therapy; diagnosis; DNA-RNA hybrid; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 54; Page 69; 132pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New oligonucleotides containing sequences with A and B geometry, used to treat and diagnose e.g. psoriasis, skin cancers and viral, fungal and bacterial infections, bind to single stranded RNA or DNA.
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                                  modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 19 BP; 0 A; 0 C; 0 G; 19 T; 0 U; 0 Other;
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/note=
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/*tag=
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/mod_base= OTHER
/note= "3'-O-(2-methoxyethyl)thymidine"
                                                 Location/Qualifiers
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            "phosphorothioate linkage"
                                                                                                                                                                                                                                 ВP
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Pred. No. 4.6e+02
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RESULT 520
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XX AAA889
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XX Oligon
XX Oligon
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 Oligonucleotide; nuclease resistance;
                         Oligonucleotide ISIS 22114.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           New oligonucleotides containing sequences with A and B geometry, treat and diagnose e.g. psoriasis, skin cancers and viral, funga bacterial infections, bind to single stranded RNA or DNA.
                                                                                                                                                                                                                                                           Sequence
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                                                                          AAA88951;
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                                                                                                                                                                                                                                                                                    and in various diagnostic applications
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                                                                                                                                                                                                                          Similarity
                                                                                                  standard; DNA; 19
                                                                                                                                                                                    АДАДАДАДАДАТАДА 1537
                                                                                                                                                                                                                                                             19 BP; 0
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                                                                                                                                                                                                             Conservative
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                                                 (first entry)
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/mod_base= OTHER
/mote= "2'-O-(2-methoxyethyl)thymidine"
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/mod_ba
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/note= "2'-O-(2-methoxyethyl)uridine"
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                                                                                                                                                                                                             Score 14.8; D
Pred. No. 4.6e
0; Mismatches
 psoriasis; antipsoriatic;
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RESULT 521 AAA88947/c ID AAA88

AAA88947

standard; DNA; 19

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Matches
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diagnosis; ss.
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                                                                                                    Local
                                       1520 AAAAAAAAAAAAGTAAAA 1537
19
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                                                                                                       Similarity
AAAAAAAAAAAAAAAAA
                                                                                 Conservative
                                                                                                                                                                BP; 0 A; 0 C; 0 G; 19 T; 0 U; 0 Other;
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-d base= :
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/mod_base= OTHER
/note= "3'-O-(2-methoxyethyl)thymidine"
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/mod_base= OTHER
/note= "3'-O-(2-methoxyethyl)thymidine"
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                                                                                                    1.1%;
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                                                                                                    Score 14.8;
Pred. No. 4.
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                                                                                   Mismatches
                                                                                                       4.6e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Oligonucleotide;
dermatological;
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                                                                                              Sequence
                                                                                                                   and in various diagnostic applications
                                                                                                                                                                                                                                                                  Example 54; Page 69; 132pp; English.
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                                               16;
                                                           Similarity
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                      AAAAAAAAAAAGTAAAA 1537
                                                                                              19 BP; 0
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                                                                                              A; 0 C; 0 G; 19 T; 0 U; 0 Other;
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3= "3'-O-(2-methoxyethyl)thymidine"
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3= "3'-O-(2-methoxyethyl)thymidine"
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Pred. No. 4.6e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       psoriasis; antipsoriatic;
antibacterial; fungicide; therapy;
                                                         DB 1;
.6e+02;
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ARABBJAN 522
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FH modifi
FT T modi
                                                                     Oligonucleotide ISIS 22111 contains a phosphodiester backbone and has 2'-
0-(2-methoxyethyl) chemistry. It was used in experiments to determine the
effects of snake venom phosphodiesterase and liver homogenate on the
stability of oligonucleotides. Novel oligonucleotides of the invention
have both A- and B-form conformational geometry. The A-form geometry
modulates the binding affinity and nuclease resistance of the
oligonucleotide. The B-form geometry allows the oligonucleotide to serve
as substrate for RNase-H when bound to a target nucleic acid strand. The
oligonucleotides can be used to treat psoriasis and other inflammatory
skin conditions, skin cancers and viral, bacterial and fungal infections,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Oligonucleotide; nuclease resistance; psoriasis; antipsoriatic; dermatological; cytostatic; virucide; antibacterial; fungicide; therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                            New oligonucleotides containing sequences with A and B geometry, used treat and diagnose e.g. psoriasis, skin cancers and viral, fungal and bacterial infections, bind to single stranded RNA or DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 misc_RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  diagnosis;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                05-MAR-2001
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Sequence 19 BP; 0 A; 0 C; 0 G;
                                                                                                                                                                                                                                                                                                                                                                            Example 54; Page 69; 132pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Manoharan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       03-MAY-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ISIS-) ISIS
                                                       in various
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000-672833/65.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PHARM INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mohan V;
                                                    diagnostic applications
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9905-00303586.
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'--nd_bage= '
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           'mod_base= OTHER
'note= "2'-O-(2-methoxyethyl)uridine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             *tag= d
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= "2'-O-(2-methoxyethyl)thymidine"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "2'-0-(2-methoxyethyl)thymidine"
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Matches
                                                                                                                                                                                                                          Query Match
Best Local Similarity
                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                               This invention describes a novel synthetic method (M) comprising: (a) providing a sample comprising a number of oligomers of formula (I); (b) contacting the sample with a deprotecting agent to remove R<sub>t</sub> groups from the oligomers; and (c) reacting the oligomer with a cleaving reagent. The method is used to produce oligomeric compounds for use in antisense and oligonuclectide therapies. The method enables the synthesis of oligomers with a reduction in the number acrylonitrile groups attached. Acrylonitrile has been demonstrated to be a potent carcinogen in rate. This sequence represents a phosphorothioate 20-mer primer which is used in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel method for the production of oligomers with reduced exocyclic adducts comprises treatment with deprotecting and cleaving reagents.
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                                                                                                                                                                                                                                                                                                     Sequence
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Guzaev A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   04-FEB-1999;
09-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Phosphorothioate;
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                                                                                                                                                                                                   16;
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                                                                                                                                                                                                                                                                                                     19 BP; 0
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                                                                                                                                                                                                     Conservative
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99US-00288679.
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                                                                                                                                                                                                                                                                                                     A; 0 C; 0 G; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 primer; oligomer synthesis; antisense therapy; ss.
                                                                                                                                                                                                                          1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          base= OTHER
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                                                                                                                                                                                                                          Score 14.8;
Pred. No. 4.
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                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                     T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                    Length 19;
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                                                                                                                                                                                                                                                                                                                                                                             The present invention is concerned with the cleavage of nucleic acids from solid supports. This is carried out by adding a non-conventional nucleotide into the nucleic acid attached to the support, so that it is recognised and cleaved by a specific DNA glycosylase and the sequence is released. This is useful in many molecular biological procedures such as sequencing, in vitro amplifications, CDNA and template preparation, DNA-based assays, mutagenesis procedures, nucleic acid purification and affinity chromatography. The present sequence is an oligonucleotide used in assays to demonstrate the methods of the invention
              WO200102423-A2
                                        Synthetic
                                                                                            Oligonucleotide
                                                                                                                       10-APR-2001
                                                                                                                                                  AAF31458;
                                                                                                                                                                             AAF31458 standard; DNA; 19 BP
                                                                                                                                                                                                                                                                                                                                                      Sequence 19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Detaching nucleic acid molecule comprising unconventional nucleotide incorporated at predetermined site from a solid support involves clethe nucleic acid molecule at the site of unconventional nucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-MAR-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cleavage of nucleic acids from
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                                                                  expression;
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                                                                                                                                                                                                                                                                                                                Similarity
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                                                                                                                       (first entry)
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                                                                                              ISIS 109989.
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                                                                  gene therapy; diagnosis; ss.
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Pred. No. 4.6e+02;
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     The present invention relates to C3' methylene hydrogen phosphate oligomers. The oligomers may be used as research reagents, for treating disease caused by undesired production of proteins and for diagnosing artreating AIDS and atherosclerosis
                                                                                                                                                                                                   New oligomers for use as research reagent, for treatiundesired production of proteins, and for diagnosing
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   07-JUL-1999;
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                                                                                                             The present invention relates to a method for preparing phosphorothioate oligonucleotides having at least one nucleoside with a 2' modification. The method comprises phosphitylating the 5'-hydroxyl of a nucleic acid group having at least one nucleoside with a 2' modification in an acetonitrile. The present sequence was used to illustrate the method of the present invention. The method is useful for synthesising sulphurised 2' substituted phosphorothioate oligonucleotides, which may be used in molecular biological research, in applications such as anti-viral therapy, and for determining the stereochemical pathways of certain enzymes which recognise nucleic acids
                                                                                                                                                                                                                                                                                                                                                                                                                           Preparing sulfurized 2' substituted phosphorothioate oligonucleotides useful in biological research, comprises phosphitylating the 5'-hydroxyl of a nucleic acid having a nucleoside with a 2' modification.
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention provides a number of DNA-RNA oligonuclectides which can act as substrates for human RNase HI (a type II RNase). The sequence consists of two portions, one of which is capable of supporting cleavage of a complementary target RNA and the other of which is incapable of supporting such cleavage. These can be used to enhance the effectiveness of antisense therapies. The present sequence is an RNase H substrate used in the exemplification of the invention
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                           AAH25738
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Chimeric oligonucleotides that can serve as substrates for human RNase H1, useful for enhancing the effectiveness of antisense gene therapies.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            05-APR-2001
                                                                                                                                                                                                                                                                                                                                                                      Sequence 19 BP; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 54; Page 88; 178pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                             1520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       n; RNase F
therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1520
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                                                                                                                                                                                                                                                           1.1%;
11 Similarity 88.9%;
16; Conservation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAAAAAAAAAAAGTAAAA 1537
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AAAAAAAAAAAAAAAAA 2
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                           standard; DNA; 19
                                                                                                                                                            AAAAAAAAAAAAAAA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Lima WF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          H type II; RNase H1 cleavage substrate; primer; phosphorothioate backbone; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99US-00409926
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/note= "optionally phosphorothioate backbone"
16. .19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /mod_base= OTHER
/note= "optionally 3'-0-(2-methoxyethyl) or 2'-0-(2-methoxyethyl)"
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                                                                                                                                                                                                                                                                                                                                                                         A; 0 C; 0 G; 19 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Wu H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ۵
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                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                            Score 14.8; DB 1;
Pred. No. 4.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Manoharan
                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3
                                                                                                                                                                                                                                                                                                                                                                            0 Other;
                                                                                                                                                                                                                                                                                                                     Length 19;
                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        antisense therapy;
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                                                                                                                                                                                                                                                                      Gaps
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RESULT 530
AAH61192/c
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                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                 Query Match
Best Local
                                                                                                                                                                                                                                                                        The present invention provides a number of DNA-RNA oligonuclectides which can act as substrates for human RNase HI (a type II RNase). The sequence consists of two portions, one of which is capable of supporting cleavage of a complementary target RNA and the other of which is incapable of supporting such cleavage. These can be used to enhance the effectiveness of antisense therapies. The present sequence is an RNase H substrate used in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                misc_RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gene
Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;
                       Cdc25 hs ribozyme binding site SEQ ID NO:3616.
                                                                                             AAH61192
                                                                                                                                                                                                                                                    Sequence 19 BP; 0 A; 0 C; 0 G; 18 T; 1 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                         Example 54; Page 88; 178pp; English.
                                                                                                                                                                                                                                                                                                                                                                                               Chimeric oligonucleotides that can serve as substrates for human RNase H1, useful for enhancing the effectiveness of antisense gene therapies
                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2001-343164/36.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Crooke
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29-SEP-2000; 2000WO-US026729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       05-APR-2001.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAH25738;
                                               10-SEP-2001
                                                                      AAH61192;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200123613-A1
                                                                                                                                                                               1520 ААЛАЛАЛАЛАЛАТАЛА 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     type II RNase H substrate oligonucleotide
                                                                                                                                                        19 AAAAAAAAAAAAAAAA 2
                                                                                                                                                                                                       16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ST,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RNase H type II; RNase H1 cleavage substrate; nerapy; primer; phosphorothioate backbone; ss.
                                                                                                                                                                                                                   Similarity
                                                                                              standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Lima WF,
                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99US-00409926
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /note= "optionally
methoxyethyl)"
19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /*tag= b
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     note=
                                                                                                                                                                                                                1.1%;
88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     _base= OTHER
e= "optionally phosphorothicate backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Wu H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ი
                                                                                               ВÞ
                                                                                                                                                                                                      0;
                                                                                                                                                                                                                   Score 14.8; DB 1
Pred. No. 4.6e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Manoharan M;
                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3'-0-(2-methoxyethyl) or 2'-0-(2-
                                                                                                                                                                                                                              DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        #5
                                                                                                                                                                                                                            Length 19;
                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                antisense therapy;
                                                                                                                                                                                                                                                                                                                                                                                                gene therapies.
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                                                                                                                                                                                                       Gaps
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RESULT 531
AAS13564
ID AAS135
XX
AC AAS135
XX
DT 17-DEC
XX
DE PCR pr
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                                                                                                                                                                                                                                                                                                                             S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cc skin or eye disease and scarring. The method involves administering a ribozyme (I) which cleaves RNA encoding a cytokine involved in cleared ribozyme (I) which cleaves RNA encoding a cytokine involved in cleared ribozyme (II) which cleaves RNA encoding a cytokine involved in cell-cycle compared to the cycle (II) comprising a promoter operably linked to a nucleic acid molecule (II) comprising a promoter operably linked to a complete acid segment encoding (I). (I) can have antipsoriatic, antisickling, cytostatic, antiseborrheic, antidiabetic, antisickling, cophthalmological, vulnerary, keratolytic and virucide activities, and cleaves RNA encoding cytokine involved in inflammation. (I) can be used in gene therapy. (I) and (II) are useful for treating proliferative skin clieaves such as paoriasis, atopic dermatitis, actinic keratosis, squamous or basal cell carcinoma and viral or seborrheic wart. They can slao be used for treating proliferative eye diseases such as diabetic retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of grematurity and retinal detachment, and for treating and preventing comparation such as keloid, adhesion and hypertrophic or hypertrophic burn can be reached to the comparation of the comp
                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  recognition site; target; ribozyme binding site; eye disease; vulnerary; proliferative disease; skin disease; psoriasis; diabetic retinopathy; cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP; matrix metalloproteinase; growth factor; reductase; scarring; cytostatic; antiseoriatic; dermatological; antiseborrheic; antidiabetic; virucide; antisickling; ophthalmological; keratolytic; gene therapy; viral wart; atopic dermatitis; actinic keratosis; squamous cell carcinoma; abasal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Treating proliferative skin or eye diseases and scarring, using ribozymes that cleave RNA encoding cytokines involved in inflammation, matrix metalloproteinases, growth factors and cell-cycle dependent kinases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 1; Page 335; 408pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Robbins JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bickle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2001-300427/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    26-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-OCT-2000; 2000WO-US029500.
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  PCR primer 2
                                                       17-DEC-2001
                                                                                                       AAS13564;
                                                                                                                                                         AAS13564 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 19 BP; 10 A; 2 C; 3 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (IMMU-) IMMUSOL INC.
                                                                                                                                                                                                                                                                                                                                                                                                            Local
                                                                                                                                                                                                                                                                                                                                     1305
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                                                                                                                                                                                                                                                                                                                                                                                          16;
                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                ATTTTTTTTTTTCAGA 1322
                                                                                                                                                                                                                                                                                     ATTTTCTTTATTTGCAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  retinopathy; as.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tritz R;
                                                                                                                                                                                                                                                                                                                                                                                          Conservative
  used to amplify PAC 10406
                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99US-0161532P
                                                                                                                                                                                                                                                                                                                                                                                                            1.1%;
                                                                                                                                                         DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             describes a method for treating a proliferative nd scarring. The method involves administering a
                                                                                                                                                         19
                                                                                                                                                                                                                                                                                     _
                                                                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                                                                                               Score 14.8; DB 1; Length 19;
Pred. No. 4.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
       (70 SP6) clone STS sequence.
                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                          0,
                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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RESULT 532
AAC83664/c
ID AAC83664 standard; DNA; 19 BE
XX
AC AAC83664;
XX
DE 2'-O-N-[2-(dimethylamino)eth)
XX
DE 2'-O-acetamido; diagnostic; h
XX
C-acetamido; diagnostic; h
XX
C-acetamid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention relates to the isolation of novel human and mouse VMGLOM polypeptides (long form and short form), and the nucleic acid molecules encoding them. VMGLOMS (also referred to as glomulins) are a subtype of venous malformations (VMs) called glomangiomas. In humans, VMGLOM has been mapped to chromosome 1p21-22. VMGLOMS and the nucleic acids encoding for them are useful as a medicament or for incorporation into a diagnostic kit. Such medicaments are useful for preventing, treating or alleviating disorders with a vascular component, particularly where alteration of vascular smooth muscle cell phenotype is needed, e.g. varicosities, cardiopathies or cardiomyopathies, cerebral disorders and cancer. The nucleic acids are also useful in gene therapy. The present sequence for PCR primer 2 is used to amplify PAC 10406 (70 SP6) clone STS sequence in the methods of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16-FEB-2000; 2000EP-00870022.
10-APR-2000; 2000US-0195777P.
22-DEC-2000; 2000EP-00870320.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; VMGLOM; glomulin; venous malformation glomangioma; PCR primer; STS; sequence tagged site; PAC 10406; ss.
                                                                                                                                                                                                                                                                                                                                                            2'-O-acetamido; diagnostic; kinase modulator; nuclease resistance; tumour formation; cancer; protein kinase C expression; cell adhesion molecule expression; multidrug resistance; 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2'-O-N-[2-(dimethylamino)ethylacetamido]-modified oligo ISIS #32335
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Vikkula
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16-FEB-2001; 2001WO-EP001760
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                              Location/Qualifiers
/*tag= a
/mod_base= OTHER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 14.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pred. No. 4.6e+02
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               quantification of ribonucleic acid and deoxyribonucleic acid or for modulating the activity of an ribonucleic acid or deoxyribonucleic acid modecule. They have a modified nucleoside monomer and are specifically hybridisable with a preselected nucleoside monomer and are specifically hybridisable with a preselected nucleotide sequence of a single-stranded or double-stranded target deoxyribonucleic acid or ribonucleic acid molecule. The oligomers are further useful in a ras-luciferase fusion system using ras-luciferase transactivation. They are useful in abnormal cell proliferation and tumour formation and modulation of expression of protein kinase C and cell adhesion molecules such as ICAM. They are useful in the modulation of proteins related to multidrug resistance and virus cytomegalovirus, papillomavirus, hepatitis C virus and influenza
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present sequence is a modified oligonucleotide. 2'-O-acetamido-modified nucleosides were used to produce oligonucleotides which have enhanced nuclease resistance and superior hybridisation properties than prior art. The oligomeric compounds are useful for identification or
                                                                                                                                                                                                        genocyping;
                                                                                                                                                                                                                                                                                               Nucleic acid
                                                                                                                                                                                                                                                                                                                                       16-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 19 BP; 0
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                                                                                           modified_base
                                                                                                                                                              Synthetic
                                                                                                                                                                                                                          Target detection; quantitative analysis; probe; medical diagnosis; forensics; bacterial screening; tissue typing; gene expression ana
                                                                                                                                                                                                                                                                                                                                                                                  AAK98526
                                                                                                                                                                                                                                                                                                                                                                                                                          AAK98526 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New 2'-O-acetamido modified nucleosides (I) used to produce oligonucleotides which have enhanced nuclease resistance and superior
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Manoharan M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   hybridization properties than prior art.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (ISIS-) ISIS
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                                                                                                                                                                                                                                                                                             quantitative analysis related oligonucleotide #1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9908-00378568
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                                                                                                                      Location/Qualifiers
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/note= "modified by thiol"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 14.8; DB 1; Length 19; Pred. No. 4.6e+02; Indels
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                                                                                                                                                                                                                                 analysis;
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention relates to a method for the qualitative and quantitative detection of targets in a sample by molecular interaction between the target and probes in an array. The method can be used to detect interactions between nucleic acids, antigens and antibodies or receptor and ligands, particularly in applications such as medical diagnosis, forensic science, bacterial seriening, tissue typing for transplantation, monitoring gene expression, and genotyping. The present sequence is a modifying oligonucleotide used in the exemplification of the inventor.
                                                                                                                                                         modified_base
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16; Conserv
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base OTHER
e= "2'-methyl thioethyl thymidine"
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e= "2'-methyl
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e= "2'-methyl thioethyl thymidine"
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0; Mismatches
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                                                                                               thioethyl thymidine"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             probe array, useful e.g. for of precipitate at specific probe
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CC -methyl thioethyl modifications. This was compared with oligonucleotides
CC with methoxyethoxy (see ABA91950) and dimethylaminopropyl (see ABA91951)
CC modifications for resistance to snake venom phosphodiesterase. The assay
CC provides methods for the alkylation of alcohols, amines, thiols and their
CC provides methods for the alkylation of alcohols, amines, thiols and their
CC derivatives by cyclic sulfate intermediates. In particular, methods for
CC the alkylation of the 2', 3' or 5'-hydroxy position of nucleosides and
CC their analogues with cyclic sulfates to form the 2', 3' or 5'-0-alkyl
CC sulfate modified compounds are disclosed. Displacement of the 2', 3' or
CC 5'-0-sulfate with a nucleophile provides 2', 3' or 5'-0-modified
CC nucleosides and their analogues. The methods are especially useful for
CC the preparation of 2'-0-alkyl nucleosides, nucleosides and nucleoside
CC surrogates that are precursors for the preparation of oligomeric
CC compounds useful as therapeutics, diagnostics and research reagents
                                                                                                                                                                                                                                                                                                                                                                                                      Matches
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Best Local
                                                                                                                                                      Synthetic
        modified_base
                                                                                                                                                                              2'-O-alkyl oligonucleotide;
                                                                                                                                                                                                      Dimethylaminopropyl modified oligonucleotide
                                                                                                                                                                                                                                                            ABA91951;
                                                                                                                                                                                                                                                                                  ABA91951 standard; DNA; 19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Alkylation of alcohols, amines, or thiols, useful for preparing nucleosides that are precursors for preparation of oligomeric compounds beneficial as therapeutics, involves use of cyclic sulfate intermediates.
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/*tag=
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                                                                                                                              Location/Qualifiers
                      note= "2'-dimethylaminopropyl thymidine"
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Pred. No. 4.6e
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RESULT 536
ABA91950/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present sequence is that of a chimeric oligonucleotide having some 2'
CC -dimethylaminopropyl modifications. This was compared with
CC oligonucleotides with methyl thioethyl (see ABA91949) and methoxyethoxy
CC (see ABA91950) modifications for resistance to snake venom
CC phosphodiesterase. The assay revealed the nuclease resistance of the
CC modified oligomers. The invention provides methods for the alkylation of
CC alcohols, amines, thiols and their derivatives by cyclic sulfate
CC intermediates. In particular, methods for the alkylation of the 2', 3' or
CS '-hydroxy position of nucleosides and their analogues with cyclic
CS sulfates to form the 2', 3' or 5'-0-sulfate modified compounds are
CC disclosed. Displacement of the 2', 3' or 5'-0-sulfate with a nucleophile
CC provides 2', 3' or 5'-0-modified nucleosides and their analogues. The
CC mathods are especially useful for the preparation of 2'-0-alkyl
CC mucleosides and nucleoside surrogates that are precursors
CC for the preparation of oligomeric compounds useful as therapeutics,
                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                     Synthetic
                                                                                                                                                                                         23-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Alkylation of alcohols, amines, or thiols, useful for preparing nucleosides that are precursors for preparation of oligomeric compounds beneficial as therapeutics, involves use of cyclic sulfate intermediates.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               modified_base
                                   modified_base
                                                                                                                       2'-O-alkyl oligonucleotide; nuclease resistance; diagnosis; therapy; ss.
                                                                                                                                                        Methoxyethoxy modified oligonucleotide
                                                                                                                                                                                                                           ABA91950;
                                                                                                                                                                                                                                                        ABA91950
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 19 BP; 0 A; 0 C; 0 G; 19 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              diagnostics and research reagents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2002-235143/29.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Fraser AS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (ISIS-) ISIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20-AUG-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US6277982-B1
                                                                                                                                                                                                                                                                                                                                                                            1520 AAAAAAAAAAAAGTAAAA
                                                                                                                                                                                                                                                                                                                                              19 AAAAAAAAAAAAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                               16;
                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15; Col 35; 45pp;
                                                                                                                                                                                                                                                        standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Manoharan M,
                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PHARM INC
                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99US-00378665
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                                    Location/Qualifiers
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/note= "2'-dimethylaminopropyl thymidine"
/*tag= a
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /mod_base= OTHER
/note= "2'-dimethylaminopropyl thymidine"
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                                                                                                                                                                                                                                                                                                                                                                                                                           1.1%;
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                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                                                                             Score 14.8; DB 1;
Pred. No. 4.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Jung ME,
                                                                                                                                                                                                                                                                                                                                                                                                        4.6e+02;
2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kawasaki AM;
                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                               Indels
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RESULT 537
ABL51520/c
ID ABL515
XX
AC ABL515
XX
DT 01-JUL
XX
DT 101-JUL
XX
Tailin
XX
Tailin
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                                                                                                                                                                                                                                                                     Query Match
Best Local
                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                       invention provides methods for the alkylation of alcohols, amines, thiols and their derivatives by cyclic sulfate intermediates. In particular, methods for the alkylation of the 2', 3' or 5'-hydroxy position of nucleosides and their analogues with cyclic sulfates to form the 2', 3' or 5'-O-sulfate modified compounds are disclosed. Displacement of the 2', 3' or 5'-O-sulfate with a nucleophile provides 2', 3' or 5'-O-modified nucleosides and their analogues. The methods are especially useful for the preparation of 2'-O-alkyl nucleotides, nucleosides and nucleoside surrogates that are precursors for the preparation of oligomeric compounds useful as therapeutics, diagnostics and research
                             Tailing reaction related exemplary primer biotin-dT18U SEQ ID NO:1.
                                                            01-JUL-2002
                                                                                         ABL51520
                                                                                                                      ABLS1520 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present sequence is that of a chimeric oligonucleotide having som-
methoxyethoxy modifications. This was compared with oligonucleotides
with methyl thioethyl (see ABA91949) and dimethylaminopropyl (see
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Alkylation of alcohols, amines, or thiols, useful for preparing nucleosides that are precursors for preparation of oligomeric compounds beneficial as therapeutics, involves use of cyclic sulfate intermediates.
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 Tailing reaction; tailed primer; primer; probe; identification;
                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABA91951) modifications for resistance to snake venom phosphodiesterase. The assay revealed the nuclease resistance of the modified oligomers. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 15; Col 35; 45pp; English.
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                                                                                                                                                                                                                                                                     Local Similarity
                                                                                                                                                                                                                      1520 AAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                                                                                                                                BP; 0
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                                                                                                                                                                                                                                                         Conservative
                                                            (first entry)
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17
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'note= "2'-methoxyethoxy thymidine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     note=
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= "2'-methoxyethoxy thymidine"
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= "2'-methoxyethoxy thymidine"
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                                                                                                                      ВP
                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                G; 19 T; 0 U;
                                                                                                                                                                                                                                                                    Score 14.8; DB 1; Length 19; Pred. No. 4.6e+02;
                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Jung ME, Kawasaki AM;
                                                                                                                                                                                                                                                                                                                  0 Other;
                                                                                                                                                                                                                                                         Indels
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ABL51521
ID ABL
XX
AC ABL
XX

ABL51521 standard; DNA; 19

ABL51521;

RESULT 538

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The method comprises using chain extending enzymes to elongate probes.

CC The method comprises: (a) treating the sample with a chain terminating comprises: (b) contacting the sample with a chain terminating the sample with a chain terminating the sample with a chain terminating a cc terminus capable of elongation by a chain extending enzyme, where the cc probe hybridises to the nucleic acid in the sample; (c) contacting the sample with a chain extending enzyme and its substrates, which elongates the probe; and (d) detecting the elongated hybridised probe. Also conditied nucleic acids in a sample with a reagent or reagents that render the nucleic acid chains unextendable with a reagent or reagents that render includes an extendable terminus, under conditions where hybridis form; and contracting enzyme and its substrates, where hybridised probe that clongating enzyme and its substrates, where any hybridis form; and contracting enzyme and its substrates, where any hybridised probe is extended. The method is useful for identifying and detecting nucleic acids, particularly DNA hybridisation probes. The present sequence contacting and the present invention
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                             S
                                                             Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Identifying and detecting nucleic acids, particularly DNA hybridization probes, involves employing chain extending enzymes (e.g. telomerase) to elongate probes to render them readily detectable.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                detection; linear amplification scheme; chain extending enzyme; telomerase; ss.
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25-MAY-2000; 2000US-00580358.
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                                                                                                                            Sequence 19 BP; 0 A; 0 C; 0 G; 18 T; 1 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 1; Page 5; 10pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2002-361176/39.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tullis RH, Streifel JA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (TULL/) TULLIS R H.
(STRE/) STREIFEL J A.
                             1520 AAAAAAAAAAAAGTAAAA 1537
19
                                                             1 Similarity
16; Conserv
 AAAAAAAAAAAAAAA
                                                               Conservative
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/mod_ba
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                                                                            88.9%;
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N
                                                               0.
                                                                               Score 14.8; DB 1;
Pred. No. 4.6e+02;
                                                                Mismatches
                                                                                            Length 19;
                                                                Indels
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                                                                Gaps
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01-JUL-2002

(first entry)

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RESULT 539
AAD42000/c
ID AAD420
XX
AC AAD420
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                                                                                                                                                                                                                                                               CC probe, which comprises using chain extending enzymes to elongate probes.

CC The method comprises: (a) treating the sample with a chain terminating creagent to prevent polynucleotide chain growth from the nucleic acid in the sample; (b) contacting the sample with the probe containing a creaminus capable of elongation by a chain extending enzyme, where the cc probe hybridises to the nucleic acid in the sample; (c) contacting the capable with a chain extending enzyme and its substrates, which elongates the probe; and (d) detecting the elongated hybridised probe. Also comprising: (a) treating nucleic acid molecules or modified nucleic acids in a sample with a reagent or reagentent enzyme; cc the nucleic acid chains unextendable by a non-template-dependent enzyme; cc includes an extendable terminus, under conditions where hybrids formed cc extended. The method is substrates, where any hybridised probe is cextended. The method is useful for identifying and detecting nucleic acide, particularly DNA hybridisation probes. The present sequence crepresents a tailing reaction exemplary primer, which is used in an any content invention.
   AAD42000
                                AAD42000 standard; DNA; 19
                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 1; Page 5; 10pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying and detecting nucleic acids, particularly DNA hybridization probes, involves employing chain extending enzymes (e.g. telomerase) to elongate probes to render them readily detectable.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2002-361176/39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-MAY-1999;
25-MAY-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  26-JUL-2001; 2001US-00917138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       miec_RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tailing reaction; tailed primer; primer; probe; identification; detection; linear amplification scheme; chain extending enzyme;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention describes a method for detecting a nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US2002031776-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            telomerase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tailing reaction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (TULL/) TULLIS R
(STRE/) STREIFEL
                                                                                                                                                                                          Local Similarity
                                                                                                                                             1520
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                                                                                                                                   AAAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                        BP; 18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         related exemplary primer dA18U SEQ
                                                                                                                                                                                                                                        A; 0 C; 0 G; 0 T; 1 U; 0 Other;
                                                                                                                                                                                        1.1%;
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                                                                                                                                                                           <u>.</u>
                                                                                                                                                                                        Score 14.8; DB 1;
Pred. No. 4.6e+02;
                                                                                                                                                                            Mismatches
                                                                                                                                                                                                        DB 1; Length 19;
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RESULT 540
AAD42002/c
SXEXEXEXEX
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                 The present invention relates to a novel method of selective alkylation of the 2' position of 2', 3'-dihydroxy sugar moieties of a nucleoside. The method involves dissolving the nucleoside in at least one aprotic solvent, cooling, treating with base, warming, cooling and reacting with a reactive ester. The method is useful for the preparation of 2'-O-alkyl nucleotides, nucleosides and nucleoside surrogates used for preparation of oligomeric compounds having improved hybridisation affinity and nuclear resistance, which are useful as therapeutics, diagnostics and research reagents. The present sequence is a modified oligonucleotide used to illustrate the method of the invention
                          Dihydroxy sugar moiety; 2'-O-alkyl nucleotide; hybridisation affinity; nuclear resistance; alkylation; therapeutic; diagnostic; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Alkylating 2' position of 2',3'-dihydroxy sugar moiety of nucleoside used for preparation of 2'-O-alkylated compounds comprises dissolving nucleoside in aprotic solvent, cooling, treating with base, warming, cooling and reacting with ester.
Unidentified
                                                                    Oligonucleotide
                                                                                                04-NOV-2002
                                                                                                                            AAD42002;
                                                                                                                                                     AAD42002 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                         Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kawasaki AM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    08-JAN-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  nuclear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Dihydroxy sugar moiety; 2'-O-alkyl nucleotide; hybridisation affinity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       04-NOV-2002
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                                                                                                                                                                                                                             19 AAAAAAAAAAAAAAAAA 2
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                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                         BP; 0 A; 0 C; 0 G; 19 T; 0 U; 0 Other;
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                                                                    #5 used to illustrate the method of the
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/mod_base= OTHER
/note= "2'-methoxyethoxy (MOE) residues"
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                                                                                                                                                                                                                                                                                               1.1%;
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                                                                                                                                                                                                                                                                                   Score 14.8; DB 1;
Pred. No. 4.6e+02;
0; Mismatches 2;
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Best Local Similarity
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                               US6403779-B1
                                                                                                                                                            modified_base
                                                                                                                                                                                                                                                    Unidentified
                                                                                                                                                                                                                                                                                                    Dihydroxy sugar moiety; 2'-O-alkyl nucleotide; hybridisation affinity; nuclear resistance; alkylation; therapeutic; diagnostic; ss.
                                                                                                                                                                                                                                                                                                                                                                                       Oligonucleotide #7
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Pred. No. 4.6e+02;
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                                                                                                                                                                                                                                                                                                   modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Dihydroxy sugar moiety; 2'.-O-alkyl nucleotide; hybridisation affinity; nuclear resistance; alkylation; therapeutic; diagnostic; ss.
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Similarity 88.9%;
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/note= "2'-dimethylaminooxyethyl thymidine (T-2'DMAOE)"
18. . 19
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                                                                                                                                                                                                                           /note= "Phosphorothioate backbone"
                                                                                                                                                                                                                                                        mod.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 entry)
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Pred. No. 4.6e+02;
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Dihydroxy sugar moiety; 2'-O-alkyl nucleotide; nuclear resistance; alkylation; therapeutic; di
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Alkylating 2' position of 2',3'-dihydroxy sugar moiety of nucleoside for preparation of 2'-O-alkylated compounds comprises dissolving
                                                                                                                                                                                                                                                                                          08-JAN-1999;
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                                                                              WPI; 2002-546338/58
                                                                                                                                                                                                                                       08-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                  US6403779-B1
                                                                                                                                                                                   (ISIS-) ISIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (ISIS-) ISIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ylating 2' position of 2',3'-dihydroxy sugar moiety of nucleoside preparation of 2'-O-alkylated compounds comprises dissolving leoside in aprotic solvent, cooling, treating with base, warming, ling and reacting with ester.
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16; Conserv
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ilarity 88.9%;
Conservative
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                                                                                                                                                                                                                                       99US-00227782
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/note= "2'-O-methyleneiminooxyethyl thymidine"
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                                                                                                                               Manoharan
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Pred. No. 4.6e
O; Mismatches
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                                                                                                                               'n,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               diagnostic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     hybridisation affinity;
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RESULT 544
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                                                                                  Alkylating 2' position of 2',3'-dihydroxy sugar moiety of nucleoside used for preparation of 2'-O-alkylated compounds comprises dissolving nucleoside in aprotic solvent, cooling, treating with base, warming, cooling and reacting with ester.
                                                                                                                                                 WPI;
                                                                                                                                                                          Kawasaki AM,
                                                                                                                                                                                                                            08-JAN-1999;
                                                                                                                                                                                                                                                    08-JAN-1999;
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modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                Dihydroxy sugar moiety; 2'-O-alkyl nucleotide; hybridisation affinity; nuclear resistance; alkylation; therapeutic; diagnostic; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Oligonucleotide #4 used to illustrate the method
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nucleoside in aprotic solvent, cooling, cooling and reacting with ester.
                                                           Example
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                                                                                                                                                                                                   (ISIS-) ISIS
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/mod_base= OTHER
/note= "5-methyl,
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                                                           English.
                                                                                                                                                                          Manoharan
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Pred. No. 4.
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The present invention relates to a novel method of selective alkylation of the 2' position of 2', 3'-dihydroxy sugar moieties of a nucleoside. The method involves dissolving the nucleoside in at least one approxic solvent, cooling, treating with base, warming, cooling and reacting with

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RESULT 545
AAD42011/c
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XX AAD420
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XX O1igon
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KW Dihydr
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KW Dihydr
KW INClea
XX Uniden
XX Uniden
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                               The present invention relates to a novel method of selective alkylation of the 2' position of 2', 3'-dihydroxy sugar moieties of a nucleoside. The method involves dissolving the nucleoside in at least one aprotic solvent, cooling, treating with base, warming, cooling and reacting with a reactive ester. The method is useful for the preparation of 2'-O-alkyl nucleotides, nucleosides and nucleoside surrogates used for preparation of oligomeric compounds having improved hybridisation affinity and nuclear resistance, which are useful as therapeutics diagnostics and research reagents. The present sequence is a modified oligonucleotide used to illustrate the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a reactive ester. The method is useful for the preparation of 2'-O-alk nucleotides, nucleosides and nucleoside surrogates used for preparation of oligomeric compounds having improved hybridisation affinity and nuclear resistance, which are useful as therapeutics, diagnostics and research reagents. The present sequence is a modified oligonucleotide used to illustrate the method of the invention
                                                                                                                                                                                                                                                                                   Alkylating 2' position of 2',3'-dihydroxy sugar moiety of nucleoside for preparation of 2'-O-alkylated compounds comprises dissolving nucleoside in aprotic solvent, cooling, treating with base, warming,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                08-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Dihydroxy sugar moiety; 2'-O-alkyl nucleotide;
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                                                                                                                                                                                                                                                                                                                                                                                             AM.
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                                                                                                                                                                                                                                                                    reacting with ester.
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Pred. No. 4.
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Best Loc
Matches
                                                                                                                                                                                   The present invention relates to a novel method of selective alkylation of the 2' position of 2', 3'-dihydroxy sugar moieties of a nucleoside. The method involves dissolving the nucleoside in at least one aprotic solvent, cooling, treating with base, warming, cooling and reacting with a reactive ester. The method is useful for the preparation of 2'-O-alkyl nucleotides, nucleosides and nucleoside surrogates used for preparation of oligomeric compounds having improved hybridisation affinity and nuclear resistance, which are useful as therapeutics, diagnostics and research resgents. The present sequence is a modified oligonucleotide used to illustrate the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Alkylating 2' position of 2',3'-dihydroxy sugar moiety of nucleoside used for preparation of 2'-0-alkylated compounds comprises dissolving nucleoside in aprotic solvent, cooling, treating with base, warming, cooling and reacting with ester.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    08-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   08-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Dihydroxy sugar moiety; 2'-O-alkyl nucleotide; hybridisation affinity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      04-NOV-2002
                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 46;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Kawasaki AM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11-JUN-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                nuclear resistance; alkylation; therapeutic; diagnostic; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAD42005;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ISIS-) ISIS
                                                                       Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1520 AAAAAAAAAAAAGTAAAA
  1520 AAAAAAAAAAAAGTAAAA
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                                                                    Similarity
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                                                                                                                                            B₽;
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                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PHARM INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Fraser
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                                                                                                                                            0 A; 0 C; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                     33; 24pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       #8 used to illustrate
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      entry.
                                                                    1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          _base= OTHER
e= "5-methyl,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Manoharan
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    1537
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                                              0;
                                                                                                                                            G; 19 T; 0 U; 0 Other;
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Pred. No. 4
                                            Pred. No. 4.66
0; Mismatches
                                                                         Score 14.8;
Pred. No. 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
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                                                                         .6e+02
                                                                                                  DB 1;
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                                                                                               Length
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                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Prakash
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                                                   Gaps
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RESULT 548
AAD41998/c
ID AAD419
XX
AC AAD419
XX
DT 04-NOV
XX
DE Oligon
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                                                                                                                                                                                                                         Query Match
Best Local :
                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                         The present invention relates to a novel method of selective alkylation of the 2' position of 2', 3'-dihydroxy sugar moieties of a nucleoside. The method involves dissolving the nucleoside in at least one aprotic solvent, cooling, treating with base, warming, cooling and reacting with a reactive ester. The method is useful for the preparation of 2'-O-alkyl nucleotides, nucleosides and nucleoside surrogates used for preparation of oligomeric compounds having improved hybridisation affinity and nuclear resistance, which are useful as therapeutics, diagnostics and research reagents. The present sequence is a modified oligonucleotide used to illustrate the method of the invention
Oligonucleotide #1 used to illustrate the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Dihydroxy sugar moiety; 2'-O-alkyl nucleotide; hybridisa nuclear resistance; alkylation; therapeutic; diagnostic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Oligonucleotide #6 used to illustrate the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Alkylating 2' position of 2',3'-dihydroxy sugar moiety of nucleoside used for preparation of 2'-0-alkylated compounds comprises dissolving nucleoside in aprotic solvent, cooling, treating with base, warming, cooling and reacting with ester.
                           04-NOV-2002
                                                       AAD41998;
                                                                                 AAD41998
                                                                                                                                                                    1520 AAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                    19
                                                                                                                                                                                                       1.1%;
:1 Similarity 88.9%;
16; Conservative
                                                                                 standard;
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                          (first entry)
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                                                                                                                                                                                                                                                                A; 0 C; 0 G; 19 T; 0 U; 0 Other;
                                                                                 DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            _base= OTHER
e= "5-methyl, 2'-0-propyl residues"
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                                                                                                                                                      2
                                                                                                                                                                                                          0;
                                                                                                                                                                                                         Score 14.8; DB 1;
Pred. No. 4.6e+02;
0; Mismatches 2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            hybridisation affinity;
                                                                                                                                                                                                                                    Length 19;
                                                                                                                                                                                                           Indels
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RESULT 549
AAD4199/c
ID AAD419
XX AAD419
XX AAD419
XX Oligon
XX Oligon
XX Oligon
XX Index
XW Dihydr
XW nuclea
XX Uniden
XX Uniden
XX TH Key
FT modifi
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                                                                                                                                                                                                                                                                                                                                        Matches
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Best Local
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           Key
modified_base
                                                       Unidentified
                                                                                 Dihydroxy sugar moiety; 2'-O-alkyl nucleotide; hybridisation affinity; nuclear resistance; alkylation; therapeutic; diagnostic; ss.
                                                                                                                           Oligonucleotide #2 used to illustrate the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Alkylating 2' position of 2',3'-dihydroxy sugar moiety of nucleoside used for preparation of 2'-O-alkylated compounds comprises dissolving nucleoside in aprotic solvent, cooling, treating with base, warming,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US6403779-B1
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modified_base
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                                                                                                                                                       04-NOV-2002
                                                                                                                                                                                  AAD41999;
                                                                                                                                                                                                            AAD41999
                                                                                                                                                                                                                                                                                                                                                                                             Sequence 19 BP; 0 A; 0 C; 0
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                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       and reacting with ester.
                                                                                                                                                                                                            standard; DNA;
                                                                                                                                                                                                                                                                                AAAAAAAAAAAAAAAA
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                                                                                                                                                       (first
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Location/Qualifiers
15. .18
/*tag= a
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/mod_base=
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                                                                                                                                                     entry)
                                                                                                                                                                                                                                                                                                                                                1.1%;
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                                                                                                                                                                                                            ВP
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                                                                                                                                                                                                                                                                                                                                                                                             G; 19 T;
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Pred. No. 4.6e+02;
0; Mismatches 2;
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                                                                                                                                                                                                                                                                                                                                                                                             0 Other;
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                                                                                                                                                                                                                                                                                                                                                                Length 19;
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RESULT 550
AAD4209/c
ID AAD420
XX AAD420
XX AAD420
XX Oligon
XX Dihyda
XX Dihyda
XX Dihyda
XX Unider
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   08-JAN-1999;
                                 11-JUN-2002
                                                                                                                                                                                                                                    Dihydroxy sugar moiety; 2'-O-alkyl nucleotide;
                                                                                                                                                                                                                                                             Oligonucleotide #12 used to illustrate the method of the invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Alkylating 2' position of 2',3'-dihydroxy sugar moiety of nucleoside used for preparation of 2'-0-alkylated compounds comprises dissolving nucleoside in aprotic solvent, cooling, treating with base, warming, cooling and reacting with ester.
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                                                               US6403779-B1
                                                                                                                                        modified_base
                                                                                                                                                                                       Unidentified
                                                                                                                                                                                                                  nuclear resistance; alkylation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 46;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (ISIS-) ISIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local
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                                                                                                                                                                                                                                                                                                                                                         standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                     AAAAAAAAAAAAAAA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP; 0 A; 0 C; 0 G; 19 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Col 31; 24pp; English.
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    99US-00227782.
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                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /mod_base= OTHER
/note= "5-methyl,
residues"
                                                                                                          _bom/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1.1%;
                                                                                       _base= OTHER
== "2'-dimethylaminooxyethyl thymidine (T-2'DMAOE)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Manoharan M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 14.8; DB 1
Pred. No. 4.6e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                  therapeutic; diagnostic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2'-dimethylaminooxyethoxy (2'-DMAOE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cook PD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                                    hybridisation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Prakash
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ŢP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                    affinity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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RESULT 551
ABZ75398/c
ID ABZ753
XX ABZ753
XX ABZ753
XX VNuclea
XX Nuclea
XX Nuclea
XX VNuclea
XX Synthe
XX Synthe
XX Condifi
FT modifi
FT modifi
FT T W02003
PN W02003
PN W02003
PN U02003
PN I6-JAN
XX O1-JUL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to a novel method of selective alkylation of the 2' position of 2', 3'-dihydroxy sugar moieties of a nucleoside. The method involves dissolving the nucleoside in at least one aprotic solvent, cooling, treating with base, warming, cooling and reacting with a reactive ester. The method is useful for the preparation of 2'-O-alkyl nucleotides, nucleosides and nucleoside surrogates used for preparation of oligomeric compounds having improved hybridisation affinity and nuclear resistance, which are useful as therapeutics, diagnostics and research reagents. The present sequence is a modified oligonucleotide used to illustrate the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Alkylating 2' position of 2',3'-dihydroxy sugar moiety of nucleoside used for preparation of 2'-O-alkylated compounds comprises dissolving nucleoside in aprotic solvent, cooling, treating with base, warming, cooling and reacting with ester.
                                                                                                                              03-JUL-2001; 2001US-0302682P
28-NOV-2001; 2001US-00996292
10-DEC-2001; 2001US-00013295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nuclease resistant; ds; pharmaceutical; topical administration; transdermal patch; enzymatic degradation resistant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic nuclease-resistant oligomeric compound #54.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      07-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 19 BP; 0 A; 0 C; 0 G; 19 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Kawasaki AM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                08-JAN-1999;
                         Manoharan M,
                                                                                                                                                                                                                                            01-JUL-2002; 2002WO-US020934.
                                                                                                                                                                                                                                                                                                       16-JAN-2003.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABZ75398;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABZ75398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 46; Col 35; 24pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2002-546338/58
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                                                                                 (ISIS-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1520 АЛАЛАЛАЛАЛАГТАЛАЛ 1537
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                                                                                 SISI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                standard; DNA; 19 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PHARM INC
                                                                                 PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Fraser
                            Maier MA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9905-00227782
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                       /*tag= a
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                            /note= "phenoxazine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                88.9%;
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                              Prakash
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Manoharan M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 14.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred.
                              ŢP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      No. 4.6e+02;
                              Rajeev KG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ဂ္ဂ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ď,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0,
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RESULT 552
ABZ75399/c
ID ABZ753
AC ABZ75
AAC A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      03-JUL-2001;
28-NOV-2001;
10-DEC-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to novel nuclease-resistant oligomeric compounds. The compounds of the invention are useful as pharmaceuticals for topical administration such as transdermal patches. The oligomeric compound is resistant to enzymatic degradation. The sequences shown in ABZ75345-ABZ75399 represent the nuclease-resistant compounds of the invention
                                                                         The invention relates to novel nuclease-resistant oligomeric compounds. The compounds of the invention are useful as pharmaceuticals for topical administration such as transdermal patches. The oligomeric compound is resistant to enzymatic degradation. The sequences shown in ABZ75345-
                                                                                                                                                                                                                                                                                                                           WPI; 2003-256318/25.
                                                                                                                                                                                                                                                                                                                                                                      Manoharan M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       16-JAN-2003.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    transdermal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nuclease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           07-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABZ75399 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 19
                                                                                                                                                                                                   Disclosure;
                                                                                                                                                                                                                                                 topical administration such
                                                                                                                                                                                                                                                                          Nuclease-resistant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-JUL-2002; 2002WO-US020934
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           topical administration such as transdermal patches.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nuclease-resistant oligomeric compound useful as pharmaceuticals
                                                                                                                                                                                                                                                                                                                                                                                                                         (ISIS-) ISIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2003-256318/25
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             resistant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAAAAAAAAAAAAAAAAAAA
                                                  represent the nuclease-resistant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           nuclease-resistant
                                                                                                                                                                                                 Page 234;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP; 0 A; 0 C; 0 G; 18 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Page 234; 234pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 patch; enzymatic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2001US-0302682P.
2001US-00996292.
2001US-00013295.
                                                                                                                                                                                                                                                                                                                                                                                                                         PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                      Maier MA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            mod
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        notes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     *tag= a
                                                                                                                                                                                                                                                                        oligomeric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ds; pharmaceutical; topical administration;
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e= "G-clamp
                                                                                                                                                                                              234pp; English.
                                                                                                                                                                                                                                                                                                                                                                        Prakash
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ВP
                                                                                                                                                                                                                                                   8.8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           oligomeric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    degradation resistant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 14.8; DB 1;
Pred. No. 4.6e+02;
D; Mismatches 2
                                                                                                                                                                                                                                            compound useful as pharmaceuticals transdermal patches.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        modification"
                                                                                                                                                                                                                                                                                                                                                                      TP,
                                                                                                                                                                                                                                                                                                                                                                      Rajeev
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                                                  compounds
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                                                     of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19;
                                                     invention
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Sequence

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1 Other;

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RESULT 553
ABZ58336/c
ID ABZ5833
XX ABZ5833
XX ABZ5833
XX ABZ583
XX OAI5900
XX Oligon
XX FT modifi
FT T 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
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The present sequence is an example of an oligonucleotide of the invention containing 2'-0-(2-(methylthio)ethyl)-5-methyluridine (2'-0-(MTE)-5-methyluridine) modifications. In examples of the invention, 2'-0-MTE was incomporated into oligonucleotides and evaluated for antisense properties in comparison with the known 2'-0-(2-methoxyethyl) (2'-0-MOE) modification. The 2'-0-MTE modified oligonucleotides exhibited similar binding affinity to target RNA as their 2'-0-MOE equivalent while binding to human serum albumin was improved. The modification can be used to modulate the pharmacokinetics of oligonucleotides, e.g. in antisense
                                                                                                                                                                                                                                                                                                   Increasing binding of oligomeric compound to proteins useful preparation of antisense therapeutics, involves use of modification oligomeric compound having oligonucleotide group.
                                                                                                                                                                                                                                                          Example
                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2003-239204/23.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-JUL-2001;
28-JAN-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-JUL-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Oligonucleotide;
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                                                                                                                                                                                                                                                       27; Page 72;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   standard; DNA; 19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         Manoharan
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2002US-00058740.
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/mod_base= OTHER
/note= "2'-O-(2-methylthio)ethyl)-5-methyluridine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /mod_base= OTHER
/note= "2'-O-(2-methylthio)ethyl)-5-methyluridine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2'-0-(2-(methylthio)ethyl)-5-methyluridine; antisense;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      note=
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e= "2'-0-(2-methylthio)ethyl)-5-methyluridine"
                                                                                                                                                                                                                                                     122pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ase= OTHER
"2'-O-(2-methylthio)ethyl)-5-methyluridine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
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Pred. No. 4.6e+02;
0; Mismatches 2
                                                                                                                                                                                                                                                                                                                             und to proteins useful in involves use of modified
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RESULT 554
ADF35957/C
ID ADF359
XX Human
XX double
KW Short
KW VaBcul
KW vaBcul
KW vaBcul
KW Polycy
XX Synthe
OS Synthe
OS Homo 8
XX WO2003
XX Synthe
OS 20-FEB
XX C20-FEB
XX ADF359
XX RO2003
XX Synthe
OS Synthe
OS Synthe
OS Synthe
OS 39-AUG
PN WO2003
XX Synthe
OS 39-AUG
PN WO2003
XX Synthe
OS 39-AUG
PN WO2003
XX Synthe
OS 59-AUG
PN WO2003
XX Synthe
OS 59-AUG
PN WO2003
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XX 20-FEB
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XX 20-FEB
XX 15-JAN
XX 15-JAN
XX (RIBO-
PN MCSWig
PN 09-SEP
PN
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Best Local :
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11-MAR-2002;
29-MAY-2002;
06-JUN-2002;
03-JUL-2002;
29-JUL-2002;
29-AUG-2002;
05-SEP-2002;
05-SEP-2002;
04-NOV-2002;
27-NOV-2002;
                      The present invention describes a double-stranded short interfering nucleic acid (siNA) that downregulates expression of the vascular endothelial growth factor receptor (VEGFR) gene. Also described: (1) a siNA that downregulates the VEGF gene; (2) kits for in vitro or in vivo delivery of siNA; (3) conjugates and/or complexes of siNA; (4) vectors that express siNA; and (5) single-stranded siNA with similar properties
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                whort interfering nucleic acid; siNA; downregulation; vascular endothelial growth factor roots; VEGFR; antiangiogenic; cytostatic; antidabetic; ophthalmological; antiarthritic; antipsoriatic; nephrotropic; gynaecological; angiogenesis-associated condition; cancer; diabetic retinopathy; macular degeneration; neovascular glaucoma; arthritis; psoriasis; endometriosis; angiofibroma; polycystic kidney disease; ss.
                                                                                                                                                                                                Example 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-FEB-2003; 2003WO-US005022.
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                                                                                                                                                                                                                                                                  double-stranded interfering nucleic diagnosis of cancer, downregulates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sapiens
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16; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAAAAAAAAAAAAAAAA 2
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                                                                                                                                                                                             SEQ ID NO 246; 207pp; English.
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2002US-0408378P.
2002US-04092939.
2002US-002087949.
2002US-00306747.
2003US-0440129P.
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2002US-0386782P.
2002US-0393796P.
2002US-0393348P.
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                                                                                                                                                                                                                                                                                                                                                                                              Beigelman
     antiangiogenic,
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Pred. No. 4
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                                                                                                                                                                                                                                                                                                nucleic acid, useful e.g. for treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
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                                                                                                                                                                                                                                                                       the vascular endothelial growth
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       antidiabetic
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RESULT 555
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Best Local &
                                                                                                                                                                                                           11-MAR-2002;
29-MAY-2002;
06-JUN-2002;
03-JUL-2002;
29-JUL-2002;
                                                                                                                                                                     29-AUG-2002;
05-SEP-2002;
09-SEP-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                            short interfering nucleic acid; siNA; downregulation; vascular endothelial growth factor receptor; VEGFR; antiangiogenic; cytostatic; antidiabetic; opthalmological; antiarthritic; antipsoriatic; nephrotropic; gynaecological; anglogenesis; associated condition; cancer; diabetic retinopathy; macular degeneration; neovascular glaucoma; arthritis; psoriasis; endometriosis; angiofibroma; polycystic kidney disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ophthalmological, antiarthritic, antipsoriatic, nephrotropic and gymaecological activities. The siNA are useful for modulating (downregulating) the expression of VEGFR genes. The siNA are potentially useful for treating a wide range of angiogenesis-associated conditions, particularly cancers, diabetic retinopathy, macular degeneration, neovascular glaucoma, arthritis, psoriasis, endometriosis, angiofibroma, and polycystic kidney disease. The siNA may also be useful for diagnosis, drug screening, target identification and validation, genetic engineering, studying gene function, and also for gene mapping (e.g. of single-nucleotide polymorphisms). The present sequence is used in the
                                                                                                                                              04-NOV-2002;
27-NOV-2002;
                                                                                                                                                                                                                                                                               20-FEB-2002; 2002US-0358580P
                                                                                                                                                                                                                                                                                                          20-FEB-2003; 2003WO-US005022
                                                                                                                                                                                                                                                                                                                                    28-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         double-stranded short interfering nucleic acid;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human VEGFR1 short interfering nucleic acid (siNA) SEQ ID NO:673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADF36384;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   exemplification of the present invention.
                                                                                                     (RIBO-)
                                                                                                                                                                                                                                                                                                                                                               WO2003070910-A2
                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens.
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                                                   2003-679876/64.
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                                                                                                     RIBOZYME
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                                                                                                                           ; 2002US-0393796P.

2002US-0399348P.

2002US-0406784P.

2002US-0408378P.

2002US-0408378P.

2002US-0409293P.

2002US-00306747.

2003US-0040129P.
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2002US-0386782P
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                                                                         Beigelman
                                                                                                       PHARM INC
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Pred.
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No. 4.
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New double-stranded interfering nucleic acid, useful eand diagnosis of cancer, downregulates the vascular end

endothelial

growth

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RESULT 556
ADE992445/c
ID ADE992
XX ADE992
XX ADE992
XX Oligom
KW 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ophthalmological, antiarchritic, antipsoriatic, nephrotropic and gymaecological activities. The siNA are useful for modulating (downregulating) the expression of VEGFR genes. The siNA are potentially useful for treating a wide range of angiogenesis-associated conditions, particularly cancers, diabetic retinopathy, macular degeneration, neovascular glaucoma, arthritis, psoriasis, endometriosis, angiofibroma, and polycystic kidney disease. The siNA may also be useful for diagnosis, drug screening, target identification and validation, genetic engineering, studying gene function, and also for gene mapping (e.g. of single-nucleotide polymorphisms). The present sequence is used in the exemplification of the present invention.
   The invention relates to oligomeric compounds having at least one nucleoside. The compounds are useful for therapeutic and investigative purposes and for treating hepatitis C virus infection. The compounds having 2'-O-modifications increases their affinity and nuclease resistance. This sequence represents an oligomeric compound of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention describes a double-stranded short interfering nucleic acid (siNA) that downregulates expression of the vascular endothelial growth factor receptor (VEGFR) gene. Also described: (1) a siNA that downregulates the VEGF gene; (2) kits for in vitro or in vivo delivery of siNA; (3) conjugates and/or complexes of siNA; (4) vectors that express siNA; and (5) single-stranded siNA with similar properties. The siNAs have antiangiogenic, cytostatic, antidiabetic,
                                                                                                                                                                                       Disclosure; SEQ ID NO 5; 26pp; English
                                                                                                                                                                                                                                                                                   New oligomeric compound having at least one nucleoside useful for therapeutic and investigative purposes e.g. for treating hepatitis C
                                                                                                                                                                                                                                                                                                                                                                                                                                              Manoharan M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              07-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-AUG-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Oligomeric compound; nuclease resistance;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Modified oligomeric compound
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nes 13; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GUUAGUCAAAAAAAAAA 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               hepatitis C virus; 2'-O-modification; hepatotropic; virucide; antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3; Mismatches
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Pred. No. 4.6e+02;
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ADE99265/c
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                                           Matches
                                                  Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local (
                                                                                                                 The invention relates to oligomeric compounds having at least one nucleoside. The compounds are useful for therapeutic and investigative purposes and for treating hepatitis C virus infection. The compounds having 2'-O-modifications increases their affinity and nuclease resistance. This sequence represents an oligomeric compound of the
                                                                                                                                                                                                        New oligomeric compound having at least one nucleoside useful for therapeutic and investigative purposes e.g. for treating hepatitis virus infection.
                                                                                    Sequence 19
                                                                                                                                                                                  Disclosure; SEQ ID NO
                                                                                                                                                                                                                                                   WPI; 2003-895259/82.
                                                                                                                                                                                                                                                                       Manoharan M,
                                                                                                                                                                                                                                                                                                                   07-AUG-1998;
                                                                                                                                                                                                                                                                                                                                        06-AUG-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                             nuclease resistance;
                                                                                                                                                                                                                                                                                                                                                                                                                                    Oligomeric compound;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Modified oligomeric
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADE99265
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                                                                                                                                                                                                                                                                                              (ISIS-) ISIS
                   1520 АЛАЛАЛАЛАЛАГТАЛА 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1520 AAAAAAAAAAAGTAAAA 1537
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19 АЛЛАЛАЛЛАЛАЛАЛАЛАЛ 2
                                           16;
                                                    Similarity
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                                         Conservative
                                                                                   BP; 0 A; 0 C; 0 G; 19 T; 0 U;
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                                                  1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           compound
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                                                                                                                                                                                                                                                                                                                                                                                                                                       hepatitis C virus; 2'-0-modification;
                                                                                                                                                                                 26; 26pp; English.
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                                                  Score 14.8; DB 1
Pred. No. 4.6e+02
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Pred. No. 4.6e+02;
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                                           Mismatches
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RESULT 558
ADF83976/c
ID ADF83976 standard; RNA; 19 B:
XX
AC ADF83976;
XX
DT 26-FEB-2004 (first entry)

ВP

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RESULT
ADF8371.
ID AD
XX
AC AD
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AC AD
XX
DT 26
DT 26
CH
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KW Sh
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Best Local
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06-JUN-2002; 2002US-0386782P.
15-AUG-2002; 2002US-0406784P.
29-AUG-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0408378P.
09-SEP-2002; 2002US-0409323P.
14-JAN-2003; 2003US-0449923P.
15-JAN-2003; 2003US-0449922P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-FEB-2002;
11-MAR-2002;
06-JUN-2002;
15-AUG-2002;
                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a novel double-stranded short interfering nucleic acid (siNA) that downregulates expression of the breakpoint cluster region-v-abl Abelson murine leukaemia viral oncogene homologue 1 (BCR-ABL) gene. The siRNA of the invention demonstrates cytostatic activity and may be useful for modulating expression of the BCR-ABL gene, as well as for treating leukaemia or lymphoma and in diagnosis, drug screening, target identification and validation, genetic engineering, gene function studies and gene mapping. The current sequence is that of the human BCR-targeted siRNA of the invention.
                                            short
v-abl
                                                                                                                  26-FEB-2004
                                                                                                                                                                           ADF83713 standard;
                                                                                                                                                                                                                                                                                                                                                                Sequence 19 BP; 0 A; 12 C; 6 G; 0 T; 1 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 7; SEQ ID NO 270; 197pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-FEB-2003; 2003WO-US005234.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cytostatic; leukaemia; lymphoma; human; BCR; ss; siRNA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              double-stranded interfering nucleic acid, useful e.g. for treatment diagnosis of leukemia and lymphoma, downregulates the breakpoint
                                                                                                                                                                                                                                                                              427
                             interfering nucleic acid; siNA; breakpoint cluster region; Abelson murine leukaemia viral oncogene homologue 1; BCR-ABL; tatic; leukaemia; lymphoma; human; BCR; ss; siRNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      interfering nucleic acid; siNA; breakpoint cluster region; Abelson murine leukaemia viral oncogene homologue 1; BCR-A
                                                                                        breakpoint
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                                                                                                                                                                                                                                                                                                          16;
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                                                                                                                                                                                                                                                                                                                      Similarity
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                                                                                                                                                                                                                                                 GCGGCAGCGGCGGCG
                                                                                                                  (first entry)
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                                                                                      cluster region-targeted siRNA -
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                                                                                                                                                                                                                                                                                                                    Score 14.8;
Pred. No. 4.
                                                                                                                                                                                                                                                                                                          Mismatches
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                                                                                                                                                                                                                                                                                                     4.6e+02;
2;
                                                                                                                                                                                                                                                                                                                                   DB 1; Length 19;
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                                                                                        SEQ ID
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RESULT 560
ADG85220/c
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                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to a novel double-stranded short interfering nucleic acid (siNA) that downregulatese expression of the breakpoint cluster region-v-abl Abelson murine leukaemia viral oncogene homologue 1 (BCR-ABL) gene. The siRNA of the invention demonstrates cytostatic activity and may be useful for modulating expression of the BCR-ABL gene, as well as for treating leukaemia or lymphoma and in diagnosis, drug screening, target identification and validation, genetic engineering, gene function studies and gene mapping. The current sequence is that of the human BCR-targeted siRNA of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-AUG-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0408378P.
09-SEP-2002; 2002US-0409239P.
14-UAN-2003; 2003US-0439922P.
15-UAN-2003; 2003US-0440129P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-FEB-2002; 2002US-0358580P.
11-MAR-2002; 2002US-0363124P.
06-JUN-2002; 2002US-0386782P.
15-AUG-2002; 2002US-0404039P.
                                                                                                                                                                             Oligo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New double-stranded interfering nucleic and diagnosis of leukemia and lymphoma,
                                                                                                              Nicotiana sp
                                                                                                                                                   cytochrome
                                                                                                                                                                                                      11-MAR-2004
                                                                                                                                                                                                                                 ADG85220;
                                                                                                                                                                                                                                                       ADG85220 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 19 BP; 1 A; 6 C; 12 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 7; SEQ ID NO 7; 197pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cluster
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-679889/64.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mcswiggen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-FEB-2003; 2003WO-US005234.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO2003070972-A2
           12-MAR-2002; 2002US-0363684P
                                   12-MAR-2003; 2003WO-US007430
                                                             25-SEP-2003
                                                                                      WO2003078577-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                              427 GCGGCTGCGGCGCCGGCG 444
                                                                                                                                                                           dT primer
                                                                                                                                                                                                                                                                                                                                                                       16;
                                                                                                                                                                                                                                                                                                                       1 GCGGCAGCGGCGGCG
                                                                                                                                                                                                                                                                                                                                                                                     Similarity
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                                                                                                                                                     P450
                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                      (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Beigelman
                                                                                                                                                   gene; tobacco; phenotype; transgenic plant; nornicotine;
                                                                                                                                                                             to amplify cytochrome P450 gene fragments.
                                                                                                                                                                                                      entry)
                                                                                                                                                                                                                                                                                                                                                                                   1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (BCR-ABL) gene.
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                                                                                                                                                                                                                                                                                                                                                                                   Score 14.8; DB 1;
Pred. No. 4.6e+02;
                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     acid, useful e.g. for treatmedownregulates the breakpoint
                                                                                                                                                                                                                                                                                                                                                                                                  DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                  Length 19;
                                                                                                                                                                                                                                                                                                                                                                           Indels
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RESULT 561
ADH97218/c
ID ADH972
XX ADH972
XX APH972
XX Synthe
XX Nuclea
XX Nuclea
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Best Local Similarity
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                                                                                                                                             Guanidinium therapeutic
                                                                                                                                                                                                                                                                                                                                                        07-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                         07-JUL-2000; 2000US-00612531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nuclease resistance; hybrid binding;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetically
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to the isolation of nucleic acid molecules comprising fragments of a cytochrome gene from Nicotiana plants of molecule that have at least 75, 91 or 948 identity to the sequences. In nucleic acid molecules are useful for altering plant phenotypes, and i producing transgenic plants containing high nornicotine levels. This sequence represents a PCR primer used to isolate the fragments of the genes of the invention.
                                                                                                                                                                                                                 WPI; 2003-644179/61.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US6534639-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-APR-2004
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                                                                         Example
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P450, useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2003-902814/82.
                                                                                                                                                                                                                                                                                                              (ISIS-) ISIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (USSM-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      olated nucleic acid molecule comprising a useful for altering plant phenotypes, and containing high nornicotine levels.
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                                                                                                                                           functionalized oligonucleotides used for diagnostic, or investigative purposes comprises a number of nucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQ ID NO 154; 81pp; English.
                                                                      SEQ ID NO 7; Slpp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                              PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                             Cook PD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       modified
                                                                                                                                                                                                                                                                                                                                                             99US-00349040
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note= "OTHER = 2'-0-[2-(guanidinium)ethyl]"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          base- OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    nuclease resistant oligomer #7.
                                                                                                                                                                                                                                                                Prakash
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ВP
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Pred. No. 4.6e
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        technology;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              fragment of cytochrome for producing transgen:
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This invention relates to novel synthetically modified oligomers that have increased nuclease resistance and have enhanced hybrid binding. Such

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AAAAAAAAAAAAGTAAAA 1537

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Best Local
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Best Local (
                                                                            This invention relates to novel synthetically modified oligomers have increased nuclease resistance and have enhanced hybrid bindi oligomers are useful for dispostic and therapeutic messes such as antisense technologies. The invention also discloses a method for preparation of the oligomers with modifications as fully defined specification. The present sequence represents a synthetically modification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     antisense technologies. The invention also discloses a method for preparation of the oligomers with modifications as fully defined specification. The present sequence represents a synthetically modification of the invention.
                                             Sequence 19
                                                                  oligonucleotide
                                                                                                                                                             Example
                                                                                                                                                                                  Batun
                                                                                                                                                                                             Guanidinium therapeutic
                                                                                                                                                                                                                                WPI;
                                                                                                                                                                                                                                                      Manoharan
                                                                                                                                                                                                                                                                                                   07-JUL-1999;
                                                                                                                                                                                                                                                                                                                        07-JUL-2000; 2000US-00612531
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modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetically
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15-APR-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  oligomers are useful for diagnostic and therapeutic uses such
                                                                                                                                                                                                                                                                            (ISIS-) ISIS
                                                                                                                                                                                                                                                                                                                                                18-MAR-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nuclease resistance;
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14/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16;
           Similarity
                                                                                                                                                            26; SEQ ID NO 3; 51pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAAAAAAAAAAAAAAAA
                                                                                                                                                                                                                                                     Σ,
                                                                                                                                                                                            functionalized oligonucleotides used for diagnostic, or investigative purposes comprises a number of nucleotide
                                             BP; 0 A; 0 C; 0 G; 19 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 0 A; 0 C; 0 G; 19 T; 0 U; 0 Other;
 Conservative
                                                                                                                                                                                                                                                                             PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first
                                                                                                                                                                                                                                                     Cook PD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           modified nuclease resistant oligomer
                                                                                                                                                                                                                                                                                                   99US-00349040
                                                                  The present sequence represents a of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers 16. .19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  entry)
           1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   hybrid binding; antisense technology;
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                                                                                                                                                                                                                                                      Prakash
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           Score 14.8;
Pred. No. 4.
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Pred. No. 4.6e+02;
  Mismatches
                                                                                                                                                                                                                                                      ŢP,
                                                                                                                                                                                                                                                                                                                                                                                           2'-0-[2-(guanidinium)ethyl]"
                                                                                                                                                                                                                                                      Mohan
          .6e+02;
                      DB 1;
                                             0 Other;
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                     Length
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                       19;
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RESULT 564
ADJ81917
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                                                                                                                                                         Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                             This invention relates to novel synthetically modified oligomers that have increased nuclease resistance and have enhanced hybrid binding. Such oligomers are useful for diagnostic and therapeutic uses such as antisense technologies. The invention also discloses a method for the preparation of the oligomers with modifications as fully defined in the specification. The present sequence represents a synthetically modified oligonucleotide of the invention.
  06-MAY-2004
                       ADJ81917;
                                                 ADJ81917
                                                                                                                                                                                                         Sequence 19
                                                                                                                                                                                                                                                                                                                              Example 26; SEQ ID NO 13; 51pp; English
                                                                                                                                                                                                                                                                                                                                                                  Guanidinium therapeutic
                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2003-644179/61.
                                                                                                                                                                                                                                                                                                                                                                                                                              Manoharan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             07-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     07-JUL-2000; 2000US-00612531.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Nuclease resistance; hybrid binding; antisense technology; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetically modified nuclease resistant oligomer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      (ISIS-) ISIS
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                                                 standard;
                                                                                                            AAAAAAAAAAAAAAA 2
                                                                                                                                 ДАЛЛАЛАЛАЛА 1537
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                                                                                                                                                                                                                                                                                                                                                                                                                             Σ,
                                                                                                                                                                                                                                                                                                                                                                  functionalized oligonucleotides used for diagnostic, or investigative purposes comprises a number of nucleotide
                                                                                                                                                                                                         BP; 0
                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                      PHARM INC
  (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                              Cook PD,
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                                                                                                                                                                                                         A; 0 C; 0 G; 19 T; 0 U;
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                                                 DNA;
                                                                                                                                                                     1.1%;
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                                                 19
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                                                                                                                                                                                                                                                                                                                                                                                                                               Prakash
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OTHER
                                                                                                                                                           0;
                                                                                                                                                                      Score 14.8;
Pred. No. 4.
                                                                                                                                                            Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2'-0-[2-(guanidinium)ethyl]'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2'-0-[2-(guanidinium)ethyl]"
                                                                                                                                                                                                                                                                                                                                                                                                                               Mohan
                                                                                                                                                                     4.6e+02;
                                                                                                                                                                                    DB 1;
                                                                                                                                                                                                          0 Other;
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                                                                                                                                                            <u>ب</u>
                                                                                                                                                                                 Length 19;
                                                                                                                                                            Indels
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                                                                                                                                                           Gaps
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RESULT 565
ADJ66298/c
ID ADJ662
XX
AC ADJ662
                                                                                     밁
                                                                                                           á
                                                                                                                                                                                    cc activities), are new. he protest and encoding genes are useful for the compensation and treatment of a wide range of diseases including compensation and treatment of a wide range of diseases including compensations, and treatment of a wide range of diseases including compensations are useful for the dyserion of a wide range of diseases including compensations are useful for the diseases of the reproductive organs, compensations are useful for the diseases, diseases of the reproductive organs, compensations are useful for the diseases, and cancer and diabetic neuropathy. Specific diseases compensations diseases, unleases, uncerative colitis, benign prostate compensationed include Croth's disease, uncerative system ulcer, hay compensationed include Croth's disease, multiple sclerosis, disease, asthma, bronchitis, compensations, disease, and cancer of the testis, leukopenia, spleen hypofunction, diabetes, heart failure, QT confidence, angina pectoris, pancreatitis, lupus erythematodes, and cancer of the testis, ovary, breast, esophagus, lung, kidney, liver, prostate, confidence, processed, confidence, processed, confidence, and concerned the sequence of the invention.
                                                                                                                                    Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Proteins TCH200, TCH212, TCH encoding them for treatment including digestive, blood,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Uno
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06-FEB-2002;
  ADJ66298;
                                                                                                                                                                                  Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            08-FEB-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mus sp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (TAKE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16-JAN-2003;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -2002;
                                                                                     N
                                                                                                                                     16;
                                                                                                                                                Similarity
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ss; primer; antilipemic; antiarteriosclerotic; gynecological; anabolic; nephrotropic; antiathmatic; antinflammator; vasotropic; antirheumatic; immunosuppressive; antidabetic; neuroprotective; neuroprotective; cytostatic; antianginal; cardiant; vanilloid receptor; P-type.
                                                                                                                                                                                                                                                                                         18-JAN-2002; 2002JP-00010840
24-JAN-2002; 2002JP-00015995
01-FEB-2002; 2002JP-00025662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mouse Na+-dependent bile acid transporter gene
2003-636729/60.
                                               Hikichi Y,
                                                                                                       TAKEDA CHEM IND LTD.
                                                                                                                                                      ; 2002JP-00025706.
; 2002JP-00030015.
; 2002JP-00033111.
; 2002JP-00045058.
; 2002JP-00046951.
                                                                                                                                                                                                                                                                                                                                                                                                      2003WO-JP000311.
                                                  Sagiya Y,
                                                     Nakanishi
                                                  Α,
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The invention relates to novel proteins (I) of human origin including TCH200 (a vanilloid receptor protein), TCH212 (a P-type ATPase protein), TCH230 (a sodium-dependent bile acid transporter protein) and TCH234 (a Na + /H + exchange transporter protein) (and other proteins with similar Example 14; SEQ ID NO 114; 341pp; Japanese. TCH230 and TCH234 of human origin and DNA ent and prevention of a wide range of diseases od, respiratory and pancreatic disorders.

BP; 6 A; 6 C; 5 G; 2 T; 0 U; 0 Other;

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1546 AGGATGTCACCCAGAATG 1563
 AGCATGCCACCCAGAATG
                                      Conservative
                                               1.1%;
19
                                     0
                                               Score 14.8; DB 1
Pred. No. 4.6e+02
                                      Mismatches
                                                        DB 1;
                                       Indels
                                       0
                                       Gaps
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ADJ66298 standard; RNA; 19
 ВP
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                                                                                                                                               The invention relates to short interfering nucleic acids (siNA) which CC downregulate expression of the human transforming growth factor beta CC (TGFb) receptor (TGFb-R) gene by RNA interference. The siNAs may or may CC not comprise ribonucleotides and may be double or single stranded. They CC further comprise sense and antisense regions, or alternatively are CC specifically, the siNAs include short interfering RNA (siRNA), double-CC Specifically, the siNAs include short interfering RNA (siRNA). The siNAs CC can be unmodified or chemically modified, can contain CC deoxyribonucleotides, and can be chemically synthesised, expressed from a CC can be unmodified or chemically synthesised. The invention also relates to kits CC for the in vitro or in vivo delivery of siNA; conjugates and/or complexes CC for the in vitro or in vivo delivery of siNA; conjugates and/or complexes CC expression of the TGFb-R gene in cells, tissue explants or organisms CC (e.g., by ex vivo gene therapy), or in grafts and transplants for the CC treatment of a variety of conditions. They may be used for treating CC diabetic nephropathy, chronic liver disease or pulmonary fibrosis. The SINAs are also useful for drug screening, diagnosis, therapeutic target (conjugates). The present sequence represents the lower strand of a human TGFb-R-transferd double-stranded siNAs.
                                    Matches
                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-FEB-2002;
11-MAR-2002;
06-JUN-2002;
29-AUG-2002;
05-SEP-2002;
09-SEP-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New short interfering nucleic acid, useful e.g. for treatment and diagnosis of diabetic nephropathy, which downregulates expression of transforming growth factor-beta receptor gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            short interfering RNA; sirNA; double-stranded RNA; micro-RNA; n short hairpin RNA; shrNA, expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification; pharmacogenomics; gene function analysis; gene mapping; human; antidiabetic; nephrotropic; hepatotropic; cytostatic; transforming growth factor beta receptor; TGFb; TGFb-R;
                                                                                                      Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 3; SEQ ID NO 136; 137pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11-FEB-2003; 2003WO-US007273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO2003070197-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             06-MAY-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               diabetic nephropathy; chronic liver disease; pulmonary fibrosis; as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RNA interference;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (RIBO-)
                                                   Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2003-697557/66.
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 426 GGCGGCTGCGGCGCCGGC 443
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                                  16; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RIBOZYME
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2002US-0406784P
2002US-0408378P
2002US-0409293P
2002US-0425559P
2003US-0440129P
                                                                                                       BP; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sinA lower strand,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2002US-0358580P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2002US-0363124P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Beigelman L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PHARM INC
                                                                                                       Α;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RNA; siRNA; double-stranded RNA; micro-RNA; miRNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        short interfering nucleic acid; siNA;
                                                 88.9%;
                                                                                                       12 C; 7 G; 0 T; 0 U; 0 Other;
                                                                                                                                      double-stranded
                              0;
                                                   Score 14.8; DB 1;
Pred. No. 4.6e+02;
                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQ
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                                                                 Length 19;
                                    Indels
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                                  Gaps
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ADJ66170
ID ADJ66170
AC ADJ661
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further comprise sense and antisense regions, or alternatively are CC assembled from a sense oligonucleotide and an antisense oligonucleotide. Specifically, the siNAs include short interfering RNA (siRNA), double-stranded RNA, micro-RNA (miRNA) and short hairpin RNA (shRNA). The siNAs CC can be unmodified or chemically modified, can contain deoxyribonucleotides, and can be chemically synthesised, expressed from a CC vector or enzymatically synthesised. The invention also relates to kits for the in vitro or in vivo delivery of siNA; conjugates and/or complexes CC for the in vitro or that express siNA. The siNAs are used to modulate capression of the TGFb-R gene in cells, tissue explants or organisms (e.g., by ex vivo gene therapy), or in grafts and transplants for the CC treatment of a variety of conditions. They may be used for treating diabetic nephropathy, chronic liver disease or pulmonary fibrosis. The siNAs are also useful for drug screening, diagnosis, therapeutic target identification and validation, genetic engineering, pharmacogenomics, studying gene function, and gene mapping (e.g., of single nucleotide)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-FEB-2002;
11-MAR-2002;
06-JUN-2002;
29-AUG-2002;
05-SEP-2002;
09-SEP-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New short interfering nucleic acid, useful e.g. for treatment and diagnosis of diabetic nephropathy, which downregulates expression transforming growth factor-beta receptor gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             downregulate expression of the human transforming growth factor beta (TGFb) receptor (TGFb-R) gene by RNA interference. The siNAs may or may not comprise ribonuclectides and may be double or single stranded. They further comprise sense and antisense regions, or alternatively are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11-FEB-2003; 2003WO-US007273.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RNA interference; short interfering nucleic acid; siNA; siNA; short interfering RNA; siRNA; double-stranded RNA; micro-RNA; short hairpin RNA; shRNA, expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               06-MAY-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mcswiggen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (RIBO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12-NOV-2002;
15-JAN-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-AUG-2003.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3; SEQ ID NO 8; 137pp;
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2002US-0406784P.

2002US-0408378P.

2002US-0409293P.

2002US-0425559P.

2003US-0440129P.
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2002US-0363124P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           relates to short interfering expression of the human transf
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Beigelman
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              downregulates expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                nucleic acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 micro-RNA; miRNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (giNA) which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of the
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RESULT 567
ADL7908
XX ADL790
XX ADL790
XX DT 20-MAY
XX RNA in
XX RNA in
XX RNA in
XX Bhort
XX Bhort
XX Bhort
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XX Cycost
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20-FEB-2002;
11-MAR-2002;
29-MAY-2002;
06-JUN-2002;
06-JUN-2002;
03-JUL-2002;
03-JUL-2002;
09-SEP-2002;
                       The invention relates to short interfering nucleic acids (siNA) which downregulate expression of one or more human epidermal growth factor receptor (EGFR) genes (including HER1, HER2 HER3 and HER4) by RNA interference. The siNAs may or may not comprise ribonucleotides and may be double or single stranded. They further comprise sense and antisense regions, or alternatively are assembled from a sense oligonucleotide and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RNA interference; short interfering nucleic acid; siNA; short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA; short hairpin RNA; shRNA; expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification; pharmacogenomics; gene function analysis; gene mapping; cancer; pharmacogenomics; gene function analysis; gene mapping; cancer;
                                                                                                                                                                                                         Example
                                                                                                                                                                                                                                                                              New short interfering nucleic acid, useful e.g. f diagnosis of cancer, downregulates expression of
                                                                                                                                                                                                                                                                                                                                                                                                            Mcswiggen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21-OCT-2002;
15-JAN-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20-FEB-2003; 2003WO-US005045
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20-MAY-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADL79087;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADL79087 standard; RNA; 19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           polymorphisms). The present sequence represents the upper strand of a human TGFb-R-targeted double-stranded siNA, which is identical to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19-SEP-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cytostatic; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGFb-R
                                                                                                                                                                                                                                                                                                                                                                                                                                                             (RIBO-) RIBOZYME PHARM
     antisense oligonucleotide. Specifically,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EGFR2; neu; erbB2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 Similarity
16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N
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                                                                                                                                                                                                                                                         receptor
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                                                                                                                                                                                                                                                                                                                                                                                                            'n
                                                                                                                                                                                                       SEQ ID NO 252; 171pp; English.
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2002US-00163552
2002US-0386782P
2002US-0393924P
2002US-04067784P
2002US-04083789
2002US-04083789
2002US-0409293P
2002US-0409293P
2002US-00277494
2003US-00440129P
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                                                                                                                                                                                                                                                      gene.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                INC.
                                                                                                                                                                                                                                                                                                                                                                                                            Beigelman
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Pred. No. 4.6e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                              Foenaugh
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1;
     the siNAs
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                                                                                                                                                                                                                                                                                                             for treatment
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RESULT 568
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Best Local
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                                                                                                                                                                                       06-JUN-2002;
03-JUL-2002;
29-AUG-2002;
05-SEP-2002;
09-SEP-2002;
19-SEP-2002;
21-OCT-2002;
                                                                                                                                                                                                                                                                                                                                       11-MAR-2002;
29-MAY-2002;
06-JUN-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            short hairpin RNA; shRNA; expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification; pharmacogenomics; gene function analysis; gene mapping; cancer; cytostatic; human; oncogene; epidermal growth factor receptor; EGFR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RNA interference; short interfering nucleic acid; siNA; short interfering RNA; siRNA; double-stranded RNA; micr
                                                                                                                                                                   21-OCT-2002;
15-JAN-2003;
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                                                                                 Mcswiggen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
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                                                                                                                            (RIBO-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EGFR2;
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                                                                                                                            RIBOZYME PHARM
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                                                                                                                                                                                                                                                     ; 2002US-0386782P.
; 2002US-0393924P.
; 2002US-0406784P.
; 2002US-0408378P.
                                                                                                                                                                   2002US-0409293P.
2002US-00251117.
2002US-00277494.
2003US-0440129P.
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                                                                                                                                                                                                                                                                                                                                            2002WO-US016840.
2002US-00163552.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        neu; erbB2; c-erb-B-2; target sequence; ss.
                                                                                                                                                                                                                                                                                                                                                                                                          2002US-0358580P
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                                                                                 Pavco P,
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                                                                                 Beigelman L,
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Pred. No. 4
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                                                                                 Fosnaugh
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                                                                                    Jamison
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New short interfering nucleic

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treatment

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2003-697612/66

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RESULT 569
ABD24924
ID ABD249
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CC interference. The sinAs may or may not comprise ribonucleotides and may CC be double or single stranded. They further comprise sense and antisense CC regions, or alternatively are assembled from a sense oligonucleotide and CC an antisense oligonucleotide. Specifically, the sinAs include short CC interfering RNA (siRNA), double-stranded RNA, micro-RNA (miRNA) and short CC hairpin RNA (shRNA). The siNAs can be unmodified or chemically modified, CC can contain deoxyribonucleotides, and can be chemically synthesised. CC expressed from a vector or enzymatically synthesised. The invention also CC relates to kits for the in vitro or in vivo delivery of siNA; conjugates CC and/or complexes of siNA; and vectors that express siNA. The siNAs are CC used to modulate expression of EGFR genes in cells, tissue explants or organisms (e.g., by ex vivo gene therapy), or in grafts and transplants CC for the treatment of a variety of conditions. They may be used for treating a wide range of cancers such as breast and ovarian cancer. The siNAs are also useful for drug screening, diagnosis, therapeutic target CC identification and validation, genetic engineering, pharmacogenomics, studying gene function, and gene mapping (e.g., of single nucleotide CC plymorphisms). The present sequence represents the upper strand of a CC human HER2 (EGFR2)-targeted double-stranded siNA, which is identical to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local
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   Nyce JW,
Miller S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antisethmatic; analgesic; hypotensive; immunosuppressive; cytostattic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysems; chronic obstructive pulmonary disease; cancer; bronchitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AI095492-derived oligonucleotide SEQ ID 3936.
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                                                                                                                                                                                                                                                                             31-OCT-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         pulmonary transplantation
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                                                                                             (EPIG-)
                                                                                                                                                      24-APR-2001; 2001US-0286036P
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                                                                                             EPIGENESIS PHARM INC.
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   Li Y, Sandrasagra A,
Tang L, Shahabuddin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP; 1 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ij
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NO 3; 171pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 downregulates expression of the epidermal growth
                                                                                                                                                                                                                                                                                                                                                                                                                                                         rejection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ĺ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 486
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 14.8;
Pred. No. 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0 T; 1 U;
                                     Katz
                                                                                                                                                                                                                                                                                                                                                                                                                                                         88;
                                  ū
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0 Other;
                                  Pabalan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <u>۷</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 19;
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                               Aguilar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <u>.</u>
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RESULT 570 ADG28485/c

ADG28485 standard; DNA; 19

BXBXGXAAAAXBXBXBXAXB

Modified 26-FEB-2004 ADG28485;

oligonucleotide seq id

(first entry)

25-NOV-2003 US6653458-B1 Synthetic antibacterial; protozoacide; antialgal; fungicide; internuclectide linkage; 2', -internuclectide lin antieense; pharmaceutical; RNA-DNA transcription; RNA-protein translation; infection; diagnostic; th

diagnostic; therapeutic;

linkage; 3'-substituent;

nuclease resistance;

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                                      8
                                                                                                                                                                                                                                                        Computability of symmetreur treative tract inflammation, allergies and CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, CC surfactant depletion or hyposecretion, when administered to a mammal. The Coligonucleotides are derived from a gene encoding or regulating CC expression of a target polypeptide associated with lung airway or lung CC dysfunction or cancer and can be anti-sense to the corresponding mRNA. CC The invention also describes a kit, that comprises: (A) a delivery CC instructions for adding a carrier and for use of the kit. The composition of instructions for adding a carrier and for use of the kit. The composition CC instructions for adding a carrier and for use of the kit. The composition of treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to create the amount of target polypeptide present in the lungs. The CC inflammation, allergies and/or bronchoconstriction and/or lung cinflammation, allergies, asthma, impeded respiration, respiratory contents of the asthma, impeded respiration, respiratory contents present in the target monary of the reduced adenosine content of the anti-sense oligos corresponding to thymidines present in the target RNA serves to prevent the breakdown of the charget manary infections, bronchitis or cancer.
                                                                                 Matches
                                                                                                    Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI;
                                                                                                                                                                Sequence 19
                                                                                                                                                                                                     the oligonucleotides into products that free adenosine into the system e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 15; SEQ ID NO 3936; 763pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        comprising oligonuclectides,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               bronchodilating agent.
                                      1514 ТТААТТААААААААААА 1531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                invention describes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2003-093058/08.
                                                                                 16;
N
                                                                                                      Similarity
TTAAAAAAAAAAAAAA 19
                                                                                 Conservative
                                                                                                                                                                BP; 16 A; 0 C; 0 G; 3 T; 0 U; 0 Other;
                                                                                                    88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ø
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              novel
                                                                               0; Mismatches
                                                                                                      Score 14.8; DB 1
Pred. No. 4.6e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             effective
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              composition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           for alleviating
                                                                                                                        DB 1;
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                                                                               2
                                                                                                                        Length
                                                                                 Indels
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                                                                                                                          19;
                                                                                 <u>,,</u>
                                                                                 Gaps
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ARESULT 571
ADG2844
XX
ADG284
AC ADG284
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ADG284
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ADG286
AC ADG
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Best Local &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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02-SEP-1994;
28-FEB-1996;
14-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention describes an oligonucleotide comprising several nucleotides covalently linked together by internucleotide linkages. At least one of the nucleotides is linked to an adjacent nucleotide by 2',5',5', internucleotide linkage and bears a 3'-substituent. The oligonucleotides are useful: as antisense oligonucleotides; in pharmaceutical compositions; for treating organism that utilises RNA-DNA transcription or RNA-protein translation, batteria, yeast, protozoa, algae and warm-blooded animals; for developing diagnostic and therapeutic agents. The modified oligonucleotide exhibits improved properties of nuclease resistance and binding affinity. The oligonucleotides are easy to synthesise and exhibit good properties of nuclease resistance and hybridisation to target nucleic acids. The oligonucleotide is potent antisense agent with longer duration of action. This sequence represents an oligonucleotide of the
                                                                                                                                                                                                                                                                                                                                antibacterial; protozoacide; antialgal; fungicide; internucleotide linkage; 2',5'-internucleotide linkage; 2',5'-internucleotide linkage; 3'-substituent; antieense; pharmaceutical; RNA-DNA transcription; RNA-protein translation; infection; diagnostic; therapeutic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New oligonucleotide comprising at least one 2',5'-internucleotide useful for treating organisms having disease caused by undesired production of protein e.g. bacteria, yeast, protozoa and algae.
     03-SEP-1993;
02-SEP-1994;
                                                                                     08-NOV-1999;
                                                                                                                                        25-NOV-2003
                                                                                                                                                                                                                                                                                                          nuclease resistance;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Modified oligonucleotide seq
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                                                                                                                                                                                              US6653458-B1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAAAAAAAAAAAAAA 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 0 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           93US-00117363.
94WO-US010131.
96US-00602862.
98US-00115043.
     93US-00117363.
94WO-US010131.
                                                                                     99US-00435806.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99US-00435806
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1.1%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0 G; 19
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Pred. No. 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         id 7.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
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RESULT 572
ADG47994/c
ID ADG479
XX ADG479
XX ADG479
XX ADG479
XX ADG479
XX Hybrid
XX Hybrid
XX Hybrid
XX Hybrid
XX Synthe
XX Synthe
XX Synthe
XX IS-WAY
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XX US2003
XX 15-WAY
XX 15-WAY
XX 15-WAY
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                    New oligonucleotide comprising at least one 2',5'-internucleotide useful for treating organisms having disease caused by undesired production of protein e.g. bacteria, yeast, protozoa and algae.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI;
                        07-JUL-1999; 99US-00349040.
07-JUL-2000; 2000US-00612531.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-FEB-1996;
14-JUL-1998;
                                                                                                                                                         Synthetic
                                                                                                                                                                          Hybridisation; diagnosis; therapeutic; investigation;
                                                                                                                                                                                           Oligonucleotide
                                                                                                                                                                                                             11-MAR-2004
                                                                                                                                                                                                                              ADG47994;
                                                                                                                                                                                                                                               ADG47994 standard;
                                                                                                                                                                                                                                                                                                                                                             Sequence 19 BP; 0 A; 0 C; 0 G; 18 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Manoharan M,
                                                   20-SEP-2002; 2002US-00247893.
                                                                                      US2003092046-A1
                                                                                                                               modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (ISIS-) ISIS
                                                                                                                                                                                                                                                                                                          1520 AAAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                                                                                                                                            16;
                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      54; SEQ ID NO 7; 30pp; English.
                                                                                                                                                                                                                                                                                          AAAAAAAAAAAAAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PHARM INC.
                                                                                                                                                                                                            (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cook PD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             96US-00602862
98US-00115043
                                                                                                                                                                                            #3 used in
                                                                                                                                Location/Qualifiers 16. .19
                                                                                                     /note=
                                                                                                                      /*tag=
                                                                                                                                                                                                                                               DNA;
                                                                                                                                                                                                            entry.
                                                                                                    _base= OTHER
e= "2'-0-[2-(guanidinium)ethyl] thymidine"
                                                                                                                                                                                                                                                                                                                                    1.1%;
                                                                                                                                                                                                                                               19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Guinosso CJ
                                                                                                                                                                                                                                               ВP
                                                                                                                                                                                           the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                           0,
                                                                                                                                                                                                                                                                                                                                     Pred.
                                                                                                                                                                                                                                                                                                                                             Score 14.8;
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                                                                                                                                                                                                                                                                                                                                     No.
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                                                                                                                                                                                                                                                                                                                                             Length 19;
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MANOHARAN M. COOK P D.

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RESULT 573
ADG48004/c
ID ADG480
XX ADG480
XX ADG480
XX Hybrid
XX Hybrid
XX Synthe
XX Synthe
XX Hybrid
XX Synthe
XX Hybrid
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to novel oligonuclectides comprising several nucleotide units which are specifically hybridisable with a selected sequence of RNA or DNA wherein at least one of the nucleotide moieties of the oligomer is modified to include a guantidinium group. These oligonucleotides are useful for diagnostic, therapeutic and investigative purposes. The present sequence is an oligonucleotide used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New oligomers containing guanidinium groups, useful for modulating expression by hybridizing oligomer with single- or double-stranded nucleic acids.
  WPI; 2004-031184/03
                                                                                                                                                                                                     07-JUL-1999; 99US-00349040.
07-JUL-2000; 2000US-00612531.
                                                                                                                                                                                                                                                                                                                                                               US2003092046-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hybridisation; diagnosis; therapeutic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADG48004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADG48004 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2004-031184/03.
                                         Manoharan M,
                                                                                                                                                                                                                                                                       20-SEP-2002; 2002US-00247893
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              modified_base
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(MOHA/)
                                                                                                             (MANO/) MANOHARAN M.
(COOK/) COOK P D.
(PRAK/) PRAKASH T P.
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                                                                                        COOK P D.
PRAKASH T P.
MOHAN V.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
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                                              Cook PD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cook PD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /notes
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         entry)
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Dases OTHER
3- "2'-O-[2-(guanidinium)ethyl] thymidine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               base= OTHER
== "2'-O-[2-(guanidinium)ethyl] thymidine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1.1%;
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                                              Prakash
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Pred. No. 4.6e
0; Mismatches
                                              TP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ŢÞ,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mohan
                                              Mohan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                investigation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4.6e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0 Other;
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RESULT 574
ADG47998/c
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Best Local S
Matches 16
                                                                                                                                                        (MANO/) MANOHARAN M.
(COOK/) COOK P D.
(PRAK/) PRAKASH T P.
(MOHA/) MOHAN V.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7998/c
ADG47998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention relates to novel oligonucleotides comprising several nucleotide units which are specifically hybridisable with a selected sequence of RNA or DNA wherein at least one of the nucleotide moieties of the oligomer is modified to include a guanidinium group. These oligonucleotides are useful for diagnostic, therapeutic and investigative purposes. The present sequence is an oligonucleotide used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New oligomers containing guanidinium groups, useful for modulating expression by hybridizing oligomer with single- or double-stranded nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 19
                                                                          New oligomers containing guanidinium groups, useful for modulating expression by hybridizing oligomer with single- or double-stranded
                                                                                                                                   Manoharan M,
                                                                                                                                                                                                                07-JUL-1999; 99US-00349040.
07-JUL-2000; 2000US-00612531.
                                                                                                                                                                                                                                                                                              US2003092046-A1.
                                                                                                                                                                                                                                                                                                                                                   Key
modified_base
                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                              Hybridisation;
                                                                                                                                                                                                                                                                                                                                                                                                                                  Oligonucleotide #5 used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADG47998;
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                                                                                                              WPI; 2004-031184/03.
                                                                                                                                                                                                                                                 20-SEP-2002; 2002US-00247893
                                                                                                                                                                                                                                                                         15-MAY-2003.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BP; 0 A; 0 C; 0 G; 19 T; 0 U; 0 Other;
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                                                                                                                                    Cook PD,
                                                                                                                                                                                                                                                                                                                                                                                                            diagnosis;
                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
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/mod_base= OTHER
/note= "2'-O-[2-(guanidinium)ethyl] thymidine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                           entry)
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                                                                                                                                    Prakash
                                                                                                                                                                                                                                                                                                                                                                                                              therapeutic;
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Pred. No. 4.6e+02;
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                                                                                                                                    ŢP,
                                                                                                                                    Mohan
                                                                                                                                                                                                                                                                                                                                                                                                              investigation;
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The present invention relates to novel oligonucleotides comprising several nucleotide units which are specifically hybridisable with selected sequence of RNA or DNA wherein at least one of the nucleo

nucleic acids

Example

SEQ

ID NO

7; 54pp;

English.

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RESULT 575
ADH42933/c
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Best Local S
Matches 16
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Best Local Similarity
Matches 16; Conser
                                                                                                                        The invention relates to a guanidinium functionalised nucleotide compounds. The guanidinium functionalised nucleotide compounds are used for preparation of oligomers useful for diagnostic, therapeutic and investigative applications. The 2-O-guanidinium ethyl modification increases binding affinity to a target. The present sequence represents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      moieties of the oligomer is modified to include a guanidinium group. These oligonuclectides are useful for diagnostic, therapeutic and investigative purposes. The present sequence is an oligonuclectide upon the exemplification of the invention.
                                                                                       Sequence 19
                                                                                                                                                                                                                               New guanidinium functionalized nucleotide compounds useful for oligomers used for diagnostic, therapeutic and investigative
                                                                                                                                                                                                                                                                    WPI; 2004-118052/12.
                                                                                                                                                                                                                                                                                                                                      07-JUL-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ss; guanidinium functionalised nucleotide; guanidinium;
2-O-guanidinium ethyl; increased binding affinity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Guanidinium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADH42933 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                               guanidinium functionalised
                                                                                                                                                                                                                                                                                         Manoharan M,
                                                                                                                                                                                                                                                                                                                                                                                   15-JUL-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 modified_base
                                                                                                                                                                                               Example
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                                                                                                                                                                                                                                                                                                                SISI
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                                                                                                                                                                                                26; SEQ ID NO
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                     AAAAAAAAAAAGTAAAA
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 AAAAAAAAAAAAAAAAA
                                                                                          BP; 0
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                                                                                                                                                                                                                                                                                                                 PHARM INC.
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                                                                                                                                                                                                                                                                                          Cook PD,
                                                                                                                                                                                                                                                                                                                                      99US-00349040
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/mod_base=
                                                                                         A; 0 C; 0 G; 19 T; 0 U; 0 Other;
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                                                       1.1%;
                                                                                                                                                                                               5; 40pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                 ase= OTHER
"OTHER =
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                                                                                                                                                                                                                                                                                          Prakash
                                                                                                                 oligonucleotide.
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                                            0;
                                            Score 14.8; D
Pred. No. 4.6e
O; Mismatches
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Pred. No. 4.
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                                                                                                                                                                                                                                                                                                                                                                                                                                2-O-[2-(guanidinium)-ethyl] modified"
                                                                                                                                                                                                                                                                                          Mohan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4.6e+02;
                                                        4.6e+02;
                                                                    DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
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                                                                   Length
                                              Indels
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                                             0
                                                                                                                                                                                                                                             preparing
                                             Gaps
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RESULT 576
ADH42931/c
ID ADH429
XX ADH429
XX ADH429
XX Guanid
XX Guanid
XX 88; gu
KW 2-0-gu
XX Synthe
FH Key
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Best Local
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ss; guanidinium
2-0-guanidinium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 19 BP; 0 A; 0 C; 0 G; 19 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New guanidinium functionalized nucleotide compounds useful for oligomers used for diagnostic, therapeutic and investigative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 26; SEQ ID NO 3; 40pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  applications.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2004-118052/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Manoharan M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       07-JUL-1999;
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                                                                             Guanidinium functionalised oligonucleotide
                                                                                                                              25-MAR-2004
                                                                                                                                                                                                                                 ADH42932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-มีปี - 2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity 88.9
16; Conservative
                                                                                                                                                                                                                                 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                          AAAAAAAAAAAAAAAA
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ethyl; increased binding affinity.
functionalised nucleotide; ethyl; increased binding a
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== "OTHER = 2-0-[2-(guanidinium)-ethyl]
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Pred. No. 4.6e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a guanidinium functionalised nucleotide compounds. The guanidinium functionalised nucleotide compounds are used for preparation of oligomers useful for diagnostic, therapeutic and investigative applications. The 2-O-guanidinium ethyl modification increases binding affinity to a target. The present sequence represents guanidinium functionalised oligonucleotide.
    07-AUG-1998;
                                                                                                                                                                                                                                   antisense
                                                                                                                                                                                                                                                                                                                                                                                                   ADJ77769;
                                           11-APR-2002; 2002US-00121135.
                                                                                                                                                                                        Synthetic
                                                                                                                                                                                                                                                         2'-0-aminoethylthioethyl-modified ribosyl nucleoside;
                                                                                                                                                                                                                                                                                                     Modified antisense oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 19
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modified_base
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    98US-00130566
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Pred. No. 4.6e
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RESULT 579
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XX Modifi
XX 2'-O-a
KW 2'-O-a
KW 2'-O-a
KW 2'-O-a
KW Antise
OS Synthe
XX US6673
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Best Local
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 The invention relates to 2'.O-aminoethylthioethyl-modified ribosyl nucleosides. The modified ribosyl nucleosides are used as monomers the synthesis of modified antisense oligonucleotides, which are used diagnosis and therapeutics (e.g. in gene therapy, for treating organizations)
                                                                                                                                                                                                                                            07-AUG-1998;
06-AUG-1999;
                                                                                                      New 2'-O-aminoethylthioethyl-modified ribosyl nucleosides useful as monomer for the synthesis of modified anti-sense oligonucleotides.
                                                                                                                                                                                                                                                                                                                       06-JAN-2004.
                                                                                                                                                                                                                                                                                                                                                                                 Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                               antisense
                                                                                                                                                                                                                                                                                                                                                                                                                               2'-O-aminoethylthioethyl-modified ribosyl nucleoside;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Modified antisense oligonucleotide #25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           06-MAY-2004
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                                                                                                                                                                                Manoharan M,
                                                                                                                                                                                                               (ISIS-)
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                                                                                                                                                                                                                                                                                                                                                                                                               oligonucleotide; ss.
                                                                           SEQ ID NO
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99US-00370625
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Pred. No. 4
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                 which are useful
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RESULT 580
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KW Alosen
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                                                                                             The present invention describes a nanotube (I) attached with one or more CC nucleic acid molecule(s). Also described: (1) chemically modifying (M1) a CC nanotube; (2) physically modifying (M2) a nanotube; (3) linking (M3) CC nanotubes; (4) a several linked nanotubes (II) produced by (M3); (5) CC directing (M4) nanotubes to specific targets; (6) a nucleic acid sensor CC (III) comprising (I), where the base sequence of the attached nucleic acid molecule is substantially complementary to all or a portion of the CC base sequence of the nucleic acid molecules being detected; (7) a DNA CC array consisting of an array of groups of one or more nanotubes, each CC group having one or more nucleic acid molecules of the same base sequence CC the nucleic acid molecules, attached to the nanotubes in the group, and where the base sequence of CC the nucleic acid molecules, attached to the nanotubes in one group CC differs from those in other groups so that a number of different target DNA molecules may be detected; (8) an actuator comprising (I) and a CC membrane support to which the DNA-modified nanotubes are attached; and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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Best Local 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nanotube; nucleic acid sensor; DNA array; conductor; nanoparticle; biosensor; detection; screening; bacterial; viral; pharmaceutical; agricultural; food control; hygiene; environmental; forensic; nano-scale conductor; semiconductor; nano-electronic; prostatic nerve;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            having a disease associated by the undesired production of proteins) and as research reagents. The oligonuclectides obtained from the monomers show enhanced hybrid binding affinity towards targeted DNA or RNA and resistance towards nucleases. This sequence represents a modified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 6; Page 91; 147pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Carbon nanotube attached with one or more nucleic acid molecules, usefu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2004-269207/25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-AUG-2002; 2002AU-00951274.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29-AUG-2003; 2003WO-AU001118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO2004020450-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     bio-electronic interface; transistor; gated device; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Exemplary DNA molecule.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     03-JUN-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADM42087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 19 BP; 0 A; 0 C; 0 G; 19 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               antisense oligonucleotide of the invention.
                                          (9) a conductor (IV) comprising (I). (I) is useful in coating one or more
nanotubes with nanoparticles, which involves exposing (I) to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (CSIR ) COMMONWEALTH SCI & IND RES ORG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        samples.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAAAAAAAAAAAAAAA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Moghaddam M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
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          comprising
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1.1%;
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Pred. No. 4.6e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
          complementary nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 19
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ADM47150/

ID ADM4

XX ADM4

XX BB;

AC ADM4

XX BB;

CX Synt:

XX enha

XX Synt:

XX Synt:

XX Synt:

XX Synt:

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XX IS
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    other nanoparticles, forming one or more coated nanotubes. (I) can be used as a biosensor for detecting complementary nucleic acid strands, useful in clinical application for screening presence of bacterial or viral nucleic acid, in pharmaceutical applications, agricultural applications, food control, hygiene and environmental monitoring and forensic applications. (II) is useful as a nano-scale conductor or semiconductor, more specifically as a component in nano-electronic applications, as a replacement for damaged nerves in prostatic applications, or as the bio-electronic interface in bio-electronic devices. (II) can also be used as a transistor or gated device. The present sequence represents an oligonucleotide which is used in an example from the present invention.
                                                                                                                                                                          New nucleoside compounds useful as delay e.g. infection, inflammation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      enhanced binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2'-0-MOE-2-thio modified oligonucleotide #3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        03-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADM47150;
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                                                                                                                                                                                                                                                          WPI; 2004-256363/24.
                                                                                                                                                                                                                                                                                                          Manoharan M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                               16-AUG-2002; 2002US-00222588
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16-AUG-2002; 2002US-00222588
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ss; antisense;
                                                                                                                                                                                                                                                                                                                                                            (MANO/) MANOHARAN
(PRAK/) PRAKASH T
(RAJE/) RAJEEV K C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1520 AAAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity 88.1
16; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                            Prakash
                                                                                                                                                                                                                                                                                                                                                               × G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers 16. .19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      methyluridine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /mod_base= OTHER
/note= "OTHER = 2'-0-[2-(methoxy-)ethyl]-2-thio-5-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        affinity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1.1%;
                                                                                                                                                                                                                                                                                                            TP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                inflammation; tumour;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ВÞ
                                                                                                                                                                                                                                                                                                            Rajeev
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14.8; DB 1;
Pred. No. 4.6e+02;
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or tumor f
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
                                                                                                                                                                                  formation
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                                                                                                                                                                                                          compounds
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                                                                                                                                                                                                          ç
                                                                                                                                                                                                       prevent
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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are useful as antisense compounds in diagnostics, the prophylaxis, and as research reagents and kits, and infection, inflammation or tumour formation. The continuous formation are continuous formation.

The invention relates to nucleoside compounds. The nucleoside compounds

therapeutics,

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prevent or

Example 211;

SEQ ID NO 17; 96pp; English

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RESULT 582
AD058963/c
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                         Matches
                               Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                        Enhancing renal uptake of an oligomeric compound in the diagnostic and therapeutic applications involves incorporating at least one modified ribosyl nucleoside into the oligomeric compound.
                                                                                                                                               The invention relates to 2'-O-modified ribosyl nucleosides and methods of enhancing renal uptake of an oligomeric compound. The method is useful for enhancing renal uptake of an oligomeric compound. The sequences of the invention are useful in diagnostics, therapeutics and as research
                                                                                                                                                                                                                                                                                           WPI; 2004-201317/19.
                                                                                                                                                                                                                                                                                                                                                                                  07-AUG-1998;
06-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Key
modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Oligonucleotide #4 used in animal studies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           binding affinity properties. The present sequence represents a 2'-O-MOE-2-thio modified oligonucleotide.
                                                                        Sequence 19 BP; 0 A; 0 C; 0 G; 19 T; 0 U; 0 Other;
                                                                                                reagents; and for treating infection caused by organisms (e.g. bacteria, yeast, protozoa and algae) in plants and higher animals. The present sequence is an oligonucleoctide used in animal studies. This sequence is used to illustrate the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                15-JAN-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADO58963 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                Example 19; SEQ ID NO 26; 21pp; English.
                                                                                                                                                                                                                                                                                                                    Manoharan M,
                                                                                                                                                                                                                                                                                                                                                                                                                       06-FEB-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Renal uptake enhancement; therapy; infection; ss
                                                                                                                                                                                                                                                                                                                                             (MANO/) MANOHARAN M. (COOK/) COOK P D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local
1520 AAAAAAAAAAAAGTAAAA 1537
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                         16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAAAAAAAAAAAAA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19 BP; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                       2003US-00359328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                    Cook PD;
                                                                                                                                                                                                                                                                                                                                                                                 98US-00130566.
99US-00370625.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /mod_base= OTHER
/note= "Modified with 2'-O-[2-(2-N,N-dimethylaminoethyl)
oxyethyl]-5-methyl uridine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers 16. .19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       *tag= a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; 0 C; 0 G; 19
                                   1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                     Score 14.8; DB 1
Pred. No. 4.6e+02
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.8;
Pred. No. 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4.6e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0 Other;
                                                  DB 1;
                                               Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length
                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels · 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19;
                         0
                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                         0,
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RESULT 584
ADO59136/c
ID ADO591
XX
AC ADO591

ADO59136 standard; DNA; 19

ВÞ

ADO59136;

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RESULT 583
ADCS8942/C
ID ADCS894
XX ADCS89
XX ADCS89
XX ADCS89
XX Coligo,
XX Renal
XX Unider
XX Renal
XX Renal
XX Renal
XX Triban
XX Renal
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밁
                                              ફ
                                                                                                                                          Query Match
Best Local Similarity
                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                              The invention relates to 2'-O-modified ribosyl nucleosides and methods (enhancing renal uptake of an oligomeric compound. The method is useful for enhancing renal uptake of an oligomeric compound. The sequences of the invention are useful in diagnostics, therapeutics and as research reagents; and for treating infection caused by organisms (e.g. bacteria, yeast, protozoa and algae) in plants and higher animals. The present sequence is an oligomucleotide used to illustrate enzymatic degradation of 2'-O-modified oligomers. This sequence is used to illustrate the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 19; SEQ ID NO 5; 21pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Enhancing renal uptake of an oligomeric compound in the diagnostic and therapeutic applications involves incorporating at least one modified ribosyl nucleoside into the oligomeric compound.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Manoharan M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US2004009938-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Oligo, to illustrate enzymatic degradation of 2'-O-modified oligomers.
                                                                                                                                                                                                                                    Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     07-AUG-1998;
06-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           06-FEB-2003; 2003US-00359328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15-JAN-2004.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Renal uptake
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADO58942;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADOS8942 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (MANO/) MANOHARAN M. (COOK/) COOK P D.
                                                    1520 AAAAAAAAAAAAGTAAAA 1537
19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19
                                                                                                                                                                                                                                                                                              of the invention.
AAAAAAAAAAAAAAAA
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                                                                                                                  Conservative
                                                                                                                                                                                                                                 BP; 0 A; 0 C; 0 G; 19 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           enhancement; therapy; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cook PD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98US-00130566.
99US-00370625.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /mod_base= OTHER
/note= "Optionally 2'-O-modified with propyl,
methoxyethyl or DMAEOE"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                          1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19
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N
                                                                                                              0; Mismatches
                                                                                                                                          Score 14.8; DB 1;
Pred. No. 4.6e+02;
                                                                                                                                                                         Length
                                                                                                                  Indels
                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                bacteria,
                                                                                                              Gaps
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RESULT 585
ADD59144/c
ID ADD591
XX ADD591
XX ADD591
XX TObacc
XX Tobacc
XX Hicoti
XX Nicoti
XX US2004
PD 17-JUN
XX
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                                                                                                                                                                                                                                                                                                             5
                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to an isolated nucleic acid molecule (I), comprising a nucleic acid sequence chosen from 75 Nicotiana-derived cytochrome P450 enzyme fragment sequences. (I) is useful for producing a transgenic tobacco plant, which involves operably linking (I) with a promoter functional in the plant to create a plant transformation vector, and transforming the plant with the plant transformation vector, and selecting a plant cell transformed with the transformation vector, and regenerating a plant from the selected plant cell. The nucleic acid molecule is in an antisense orientation, sense orientation or is in a RNA interference orientation. The present sequence represents a PCR primer used to clone DNA encoding tobacco cytochrome P450 enzyme fragments of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Xu D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         An isolated nucleic acid molecule, comprising nucleic acid Nicotiana derived cytochrome P450 enzyme fragments, useful transgenic plants.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11-JAN-2002; 2002US-0347444P.
12-MAR-2002; 2002US-0363684P.
10-JAN-2003; 2003US-00340861.
                                                                       Nicotiana
                                                                                                  ss; primer;
                                                                                                                             Tobacco cytochrome P450 PCR primer #14.
                                                                                                                                                           09-SEP-2004
                                                                                                                                                                                      ADO59144;
                                                                                                                                                                                                                 ADO59144 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; SEQ ID NO 154; 82pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2004-449487/42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12-MAR-2003; 2003US-00387346.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US2004117869-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nicotiana
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tobacco cytochrome P450 PCR primer #6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              09-SEP-2004
                                           US2004117869-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (USSM-) US SMOKELESS TOBACCO CO
                                                                                                                                                                                                                                                                                                                                                                                                                                 invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        primer;
                                                                                                                                                                                                                                                                                      19
                                                                                                                                                                                                                                                                                      AAAAAAAAAAAAAAAAAA 2
                                                                                                                                                                                                                                                                                                                 AAAAAAAAAAGTAAAA 1537
                                                                                                  PCR;
                                                                                                                                                                                                                                                                                                                                                                                                   BP; 0 A; 0 C; 0 G; 19 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PCR;
                                                                                                                                                                                                                                                                                                                                             Conservative
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                                                                                                                                                         (first entry)
                                                                                                   cytochrome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cytochrome P450; transgenic; tobacco; plant.
                                                                                                                                                                                                                                                                                                                                                       1.1%;
                                                                                                                                                                                                                  19
                                                                                                                                                                                                                                                                                                                                             0;
                                                                                                   P450; transgenic; tobacco;
                                                                                                                                                                                                                                                                                                                                                         Score 14.8; DB 1;
Pred. No. 4.6e+02;
                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                        DB 1; Length 19;
                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sequence of for producing
                                                                                                                                                                                                                                                                                                                                             0
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RESULT 586
AAQ25565/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to an isolated nucleic acid molecule (I), comprising a nucleic acid sequence chosen from 75 Nicotiana-derived cytochrome P450 enzyme fragment sequences. (I) is useful for producing a transgenic tobacco plant, which involves operably linking (I) with a promoter functional in the plant to create a plant transformation vector, and transforming the plant with the plant transformation vector, selecting a plant cell transformed with the transformation vector, and regenerating a plant from the selected plant cell. The nucleic acid molecule is in an antisense orientation, sense orientation or is in a RNA interference orientation. The present sequence represents a PCR primer used to clone DNA encoding tobacco cytochrome P450 enzyme fragments of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11-JAN-2002; 2002US-0347444P.
12-MAR-2002; 2002US-0363684P.
10-JAN-2003; 2003US-00340861.
                                                                                                                                                                                           Key
                                                                                                                                                                                                                                                                                              25-MAR-2003
02-DEC-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Xu D;
                                                                      06-DEC-1991;
                                                                                                                                                                           modified_base
                                                                                                                                                                                                                   Synthetic.
                                                                                                                                                                                                                                                                     Dye-coupled 3'-amino modified oligonucleotide
                                                                                                                                                                                                                                                                                                                                    AAQ25565;
                                                                                                                                                                                                                                                                                                                                                             AAQ25565 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 19 BP; 0 A; 0 C; 0 G; 18 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Fig 73; 82pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    transgenic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              An isolated nucleic acid molecule, comprising nucleic acid sequence of Nicotiana derived cytochrome P450 enzyme fragments, useful for producing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2004-449487/42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12-MAR-2003;
                                                11-DEC-1990;
                                                                                                   17-JUN-1992
                                                                                                                            EP490281-A1
                                                                                                                                                                                                                                           DNA synthesis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (USSM-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                    1520 ААЛААЛАЛАЛАДСТАЛАЛ 1537
                                                                                                                                                                                                                                                                                                                                                                                                                            18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                            AAAAAAAAAAAAAAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   plants.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SMOKELESS TOBACCO CO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2003US-00387346
                                                                                                                                                                                                                                                                                              (revised)
(first entry)
                                                90DE-04039488
                                                                                                                                                                                                                                           RNA; antisense
                                                                         91EP-00120935
                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                    /*tag=  a
/note= "3-amino modified|
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1.1%;
                                                                                                                                                                                                                                                                                                                                                              ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 14.8; DB 1;
Pred. No. 4.6e+02;
                                                                                                                                                                                                                                              strands; detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1; Length 19;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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Engels J,

Herrlein

Z

Konrad

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Mag 3 (FARH ) HOECHST AG.

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RESULT 587
AAQ20129/c
ID AAQ201
XX AAQ201
XX AAQ201
XX AAQ201
XX deoxyz
KW deoxyz
KW deoxyz
KW invert
XX Synthe
FT modifi
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The sequence is an example of a dye coupled 3'-amino modified oligonucleotide, it can be used in the synthesis of DNA and RNA nucleosides, nucleotides and oligonucleotides and for the synthesis of opposite strands in the presence of a template strand and in fluorescence microscopic and macroscopic detection in vivo and in vitro of genetic material. It is labelled with a fluorescent dye. See also AAQ25566 and AAQ25567. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                 misc_feature
                                                                                                                                                                                                                                                                                                                                modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                        deoxyribonucleic acid; major groove; ethanoamino inverted polarity region; human respiratory syncy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cross-linking
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-APR-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAQ20129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example; Page 9; 17pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New dye-coupled modified nucleosides, nucleotides and oligo:nucleotides useful for synthesis of antisense DNA and RNA strands in presence of template, also for in=vivo and in=vitro detection of genetic material.
 25-MAY-1990;
14-JAN-1991;
                                                                                                                                           modified_base
                                                                                                                                                                                                                                      modified_base
                                                                                                                                                                                                                                                                              modified_base
                                                                                                                                                                                                                                                                                                                                                                        modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1992-201578/25
                                         25-MAY-1990;
                                                                 12-DEC-1991
                                                                                           WO9118997-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      АЛАДАЛАДАЛАДСТАЛАД 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             etandard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAAAAAAAAAAAAAAA 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                oligomer 411 to target
 90US-00529346.
91US-00640654.
                                         90US-00529346
                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                         'label=
                                                                                                                                                                                                                                                                                                                                              mod_base=
                                                                                                                                                            notes
                                                                                                                                                                                                                                                     og.
                                                                                                                                                                                                                            *tag=
                                                                                                                                                                                                                                                                                           note=
                                                                                                                                                                                                                                                                                                                     *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.1%;
                                                                                                                     base= m5c
                                                                                                                                                                                                                                                     _bage=
                                                                                                                                                                                                               base=
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                                                                                                                                                                                                                                                                                           "N-methyl-8-oxo-2'-deoxyadenine"
                                                                                                                                                                                    ø
                                                                                                                                                                                                                              Ω
                                                                                                                                                                     inverted_polarity_region
                                                                                                                                                                                                                                                                   ი
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20
                                                                                                                                                                                                                                                                                                         OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 14.8; D
Pred. No. 4.4e
0; Mismatches
                                                                                                                                                         comments"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4.4e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RSV.
                                                                                                                                                                                                                                                                                                                                                                                                                                        amino group;
syncytial v
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 20,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                           virus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                                                                                                                                                           88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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RESULT 588
AAQ33554/c
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Best Local S
Matches 16
         The sequence is that of a bovine microsatellite sequence obtd. by screening a library of bovine MboI DNA fragments of between 250 and 500 bp with an (AC)15 and a (TC)15 oligonucleotide probe. One out of 50 clones cross-hybridised. Assuming independent distribution of microsatellites and MboI sites, the frequency of (T6)n >9 microsatellites in the bovine genome is estimated at >100, 000. The sequence information
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New sequence-specific non-photo-activated crosslinking agents - bind to the major groove of duplex DNA and are esp. useful for treating latent infections e.g. {\rm HIV}.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This oligomer contains an inverted polarity region formed from an o-xyloso group xyloso dimer synthon. Residues 15 and 16 are linked via an o-xyloso group (i.e. nucleotides that have xylose sugar linked via the o-xylose ring). The sequence is designed to target the Human Respiratory Syncytial virus beginning at nucleotide 5994 and to covalently cross-link to it. See also
                                                                                                 Table 7; Page 150; 517pp;
                                                                                                                                                                                     Georges M,
                                                                                                                                                                                                                                      15-JAN-1991;
                                                                                                                                                                                                                                                                 15-JAN-1992;
                                                                                                                                                                                                                                                                                                                                                                  PCR; selection; primers; OPTIPRIM; breeding; genetic mapping; traits; amplification; ss.
                                                                                                                                                                                                                                                                                                                                                                                                        Microsatellite sequence from clone AGLA247.
                                                                                                                                                                                                                                                                                                                                                                                                                                  25-MAR-2003
02-FEB-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAQ33554 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 4; Page 28; 42pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matteucci
                                                                                                                        mapping,
                                                                                                                                                              WPI; 1992-284684/34.
                                                                                                                                                                                                                (GENM-) GENMARK.
                                                                                                                                                                                                                                                                                          06-AUG-1992.
                                                                                                                                                                                                                                                                                                                  WO9213102-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAQ33554;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ААААААААААСТААААС 1538
                                                                                                                        nic bovine DNA markers - used and selective breeding.
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                                                                                                                                                                                       Massey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BP; 1 A;
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(first en
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                                                                                                                                                                                                                                                                                                                                                                                                                                  entry)
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                                                                                                 English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 14.8; DB 1;
Pred. No. 4.4e+02;
0; Mismatches 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15 T; 0 U; 0 Other;
                                                                                                                                     ä
                                                                                                                                     genetic identification,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1;
                                                                                                                                                                                                                                                                                                                                                                                cattle;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length
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                                                                                                                                                                                                                                                                                                                                                                                parentage;
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such bovine microsatellites

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RESULT 589
AAQ30279/c
ID AAQ302
XX AAQ302
XX AAQ302
XX AAQ302
XX O1igom
XX O1igom
XX Human
XX Human
XX Malign
OS Synthe
XX Synthe
YT modifi
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Best Local Similarity
Matches 16; Conser
  08-APR-1991;
17-APR-1991;
17-APR-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           specification and indexed herein (see below). The sequences upstream and downstream of the microsatellite sequence were used to generate the required PCR primers for in vitro amplification of the corresp. microsatellite (using the program OPTIPRIM). The microsatellites may be used to identify individuals, for parentage testing, and in the genetic mapping of economic trait loci, or genes involved the determinism of economically important traits esp. in cattle, to allow selective breeding. See also AAQ33501-34437. (Updated on 25-MAR-2003 to correct PN
                                                          23-NOV-1990;
18-JAN-1991;
                                                                                                                          25-NOV-1991;
                                                                                                                                                             11-JUN-1992
                                                                                                                                                                                                       WO9209705-A1
                                                                                                                                                                                                                                                                                modified_base
                                                                                                                                                                                                                                                                                                                                                               misc_feature
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human respiratory syncytial virus; AIDS; modified; HIV; herpes; malignancy; hepetitis; inflammation; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Oligomer RSV411 for forming triplex with RSV target duplex.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-MAR-2003
07-DEC-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAQ30279;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (revised)
(first entry)
                                         90US-00617907.
91US-00643382.
91US-00683420.
                                                                                                                          91WO-US008811
                                                                                                                                                                                                                                                                                                                                                           /-tag= g
/note= "o-xyloso dimer synthon linkage"
16. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                               mod_base= m5c
                                                                                                                                                                                                                                                                   *tag=
                                                                                                                                                                                                                                                                                                       /*tag= f
/label= inverted_polarity_region
/note= "see comments"
                                                                                                                                                                                                                                                                                                                                                                                                                                            _pod_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /*tag= c
/mod_base= m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    note= "OTHER=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.1%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 14.8;
Pred. No. 4.
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N
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      methyl-8-oxo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 1; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2' deoxyadenine"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0,
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RESULT 590
AAQ49436/C
ID AAQ494
XX AAQ494
XX 25-MAR
DT 27-APR
DE Cytoch
XX Transg
XX Synthe
XX W09320
XX W09320
XX W1-OCT
XX 25-MAF
XX 27-MAF
PR 27-MAF
PR 27-MAF
PR 07-JAN
XX PA (ITFL-
XX HOltor
XX HOltor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The synthetic oligomer is capable of forming a triplex at physiological CC pH with a purine rich target sequence by coupling into the major groove of the duplex. The specific target sequence of this oligomer is an RSV CC target duplex beginning at nuclectide 594 contg. a purine-rich region CC concentrated on one chain of the duplex. The oligomer, and others like it CC are useful in diagnosis and therapy of diseases characterised by specific CC DNA duplex targets, e.g. respiratory syncytial virus, papillomavirus, cC HIV, hepatitis, herpes, malignant tumours and inflammation. The triple concludes form under mild conditions thus assays may be carried out without cubjecting the test specimen to harsh conditions. The oligomer contains an inverted polarity region formed from an o-xyloso dimer synthon. The Clinking gp. is o-xyloso (nucleotides have the 3, positions of xylose sugars linked via the o-xylene ring). Two nucleotides are coupled through a xylene residue to form the dimer synthon. This additional modifications can ylene residue to form the dimer synthon. This additional modifications con inhibit gene expression, as verified by in vitro systems. See also coupled through a systems. See also to also the couple of t
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Best Local S
Matches 16
                      Holton TA,
                                                                                                             27-MAR-1992;
07-JAN-1993;
                                                                                                                                                                               25-MAR-1993;
                                                                                                                                                                                                                                                                   WO9320206-A1
                                                                                                                                                                                                                                                                                                               Synthetic
                                                                                                                                                                                                                                                                                                                                                        Transgenic
                                                                                                                                                                                                                                                                                                                                                                                                   Cytochrome
                                                                                                                                                                                                                                                                                                                                                                                                                                               25-MAR-2003
27-APR-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAQ49436;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 20 BP; 1 A; 4 C; 0 G; 15 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 12; Page 66; 77pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New oligomers contg. modified bases -
doublet in a DNA duplex, for treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1992-217083/26.
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27-SEP-1991;
                                                                                                                                                                                                                          14-OCT-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        herpes malignancy and inflammation.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (GILE-) GILEAD SCI INC.
                                                                    (ITFL-) INT FLOWER DEV PTY LTD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAGAAAGAAAAGTAAAAG
                                                                                                                                                                                                                                                                                                                                                        plants; altered petal colour; polymerase chain reaction; ss.
                                                                                                                                                                                                                                                                                                                                                                                                   P450 sequence amplification PCR primer polyT.
                         Cornish EC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                               (revised)
(first en
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            91US-00686547
91US-00766733
                                                                                                             92AU-00001538
93AU-00006698
                                                                                                                                                                             93WO-AU000127
                                                                                                                                                                                                                                                                                                                                                                                                                                               entry)
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                           Tanaka Y;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matteucci MD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 14.8; DB 1;
Pred. No. 4.4e+02;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          which form a triplex with G-C and diagnosing HIV, hepatitis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Milligan
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RESULT 591
AAQ58578
ID AAQ585
XX AAQ586
XX Sequer
DE Sequer
DE Sequer
DE Sequer
DE Sequer
IDE recept
XX Novel
XX Novel
XX NOVel
XX NOVel
XX NOP10
PA (MASI
XX ITANS
PT Usman
XX WPI;
XX Trans
PT which
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XX The i
CC a men
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Best Local Similarity
Matches 16; Conserv
                                                                      Query Match
Best Local
                                                          Matches
                                                                                                                                           The inventors claim a method of transporting a nucleic acid deriv. accross a membrane which comprises using a receptor that uses salt bridgin, aromatic stacking, H bonding and chelation to recognise the nucleic acid deriv. AAQ56305, AAQ58577-86 are nucleic acid derivs used in the examples. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                            Transport of nucleic acid derivs. across membranes - which use salt bridging, aromatic stacking, hydrogen
                                                                                                                                                                                                                                                                                                                                                      Usman N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence of receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The sequence is that of a PCR primer which was used in polymerase chain reactions for the amplification of cloned cytochrome P450 sequences. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                 Sequence
                                                                                                                                                                                                                                  Example; Table 1, page 38; 103pp; English.
                                                                                                                                                                                                                                                                                                                          WPI; 1994-082846/10
                                                                                                                                                                                                                                                                                                                                                                                                                14-AUG-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          03-MAR-1994.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO9404194-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel receptor;
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21-AUG-1994
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAQ58578 standard; RNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 1 A; 1 C; 1 G; 17 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                             13-AUG-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nucleic acid isolate encoding flavonoid-3'-hydroxylase - create transgenic plants with altered petal colour.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1993-336914/42
                                                                                                                                                                                                                                                                                                                                                                                   (MASI ) MASSACHUSETTS INST TECHNOLOGY.
                                                                       Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TAAAAAAAAAAAAAAAAA 1
                         АААААААААА
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ЛАЛАВАЛАВАЛАВАЛАВА 18
                                                                                                                  20 BP;
                                                                                                                                                                                                                                                                                                                                                      Rebek J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          synthetic RNA oligo which is a target nucleotide for a novel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                92US-00930087
                                                                                                                                                                                                                                                                                                                                                                                                                                             93WO-US007603
                                                                                                                  20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              nucleic acid; transport; oligo; ss
                                                                                                                 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                      De
                                                                    1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              86pp; English
                                                                                                                                                                                                                                                                                                                                                       Mendoza J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20
                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <u>,,</u>
                                                     Score 14.8; DB 1; Length 20;
Pred. No. 4.4e+02;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 14.8; DB 1;
Pred. No. 4.4e+02;
D; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                              using new receptors bonding and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            is used
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                        Gaps
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RESULT 592
AAQ94205/c
ID
AAQ94205/c
AC
AAQ94205;
XX
AC
AAQ94205;
XX
C
AAQ94205;
XX
DT
25-MAR-2003 (revise
DT
24-AUG-1995 (first oligo)
XX
Oligonuclectic ligat
XX
Oligonuclectic ligat
XX
C
C
Synthetic.
XX
Synthetic.
XX
FT
misc_feature 1...
FT
modified_base 20
FT
modified_base 20
FT
T
MO9429723-A1.
XX
PD
22-DEC-1994.
XX
PD
22-DEC-1994.
XX
PD
22-DEC-1994.
XX
PD
22-DEC-1994.
XX
PD
CCOS P, Kurfurst R,
XX
PD
XX
(CROS/) CROS P.
PA (KURF/) KURFURST R.
PA (KURF/) KURFURST R.
PA (KURF/) BATTAIL N.
XX
PA (PHGA/) PHGA N.
XX
PH (PHGA/)
밁
                                              S
                                                                                                  Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                     The ligands are covalently linked to a hapten (esp. a steroid hormone) to form a conjugate which is then immobilised on a solid support for interaction with antibodies against the hapten. Nucleic acid ligands are less likely to be recognised by the antibodies than are peptide ligands and nucleic acids are also less likely to undergo intramolecular organisation which interferes with accessibility of the hapten to the antibodies. For immunodiagnosis of oestradiol, the active hapten cestradiol-6-carboxymethoxime-N- hydroxysuccinimide ester was used. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Assay device for hapten or its specific antibodies - comprises having competitive reagent immobilised via nucleic acid ligand orientation and accessibility.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Oligonucleotides (AAQ94201-Q94205) were synthesised for use as ligands.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 1; Page 10; 39pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Oligonucleotide ligand; steroid hormone; hapten; immobilisation; immunodetection; estradiol; alpha-anomer; ss.
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20
                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Kurfurst R,
ARARARARARARARARA
                                              AAAAAAAAAAAGTAAAA 1537
                                                                                                  Conservative
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                                                                                                                                                                                                         0 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                in the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note= "the glycosidic bonds between nucleotides are
in the alpha-anomer form"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DNA;
                                                                                                                        1.1%;
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                                                                                                                                                                                                         0 C; 0 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   base= OTHER
== "carries a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Battail
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                                                                                               Score 14.8; D
Pred. No. 4.4e
O; Mismatches
w
                                                                                                  0;
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                                                                                                                                                                                                         20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Piga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   group derived
                                                                                                                             4.4e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   z
                                                                                                                                                      DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    oestradiol hapten
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                                                                                                                                                      Length
                                                                                                    Indels
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to improve
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RESULT 593
AAQ75584/c
ID AAQ75584;
XX AAQ75584;
XX AAQ75584;
XX AAAJ9sis;
XX I6-APR-19;
XX I6-APR-19;
XX I6-APR-19;
XX DF 16-APR-19;
XX A MAD19sis;
XX DF 16-APR-19;
XX D
RESULT 594
AAQ75575/c
ID AAQ7555
XX
AC AAQ755
XX
DT 04-AUG
DX
Revers
XX
Analys
KW Analys
KW aggreg
XX
Synthe
XX
PD 01-NOV
XX
PF 16-APR
XX
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A method for the analysis of cDNA comprises (a) preparing an aggregate (double-stranded cDNAs by using an aggregate of mRNAs and a plural type (labelled reverse transcription primers (GENESEQ files AAQ75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                              16-APR-1993;
                                                                             01-NOV-1994.
                                                                                                                                                                                                                     aggregate;
                                                                                                                                                                                                                        Analysis; gene expression; reve
aggregate; restriction enzyme;
                                                                                                                                                                                                                                                                                              Reverse transcription
                                                                                                                                                                                                                                                                                                                                              04-AUG-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                              AAQ75575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Analysis of cDNA and gene expression - by digestion with restriction enzymes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1995-018287/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-NOV-1994.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 aggregate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Analysis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Reverse transcription
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       04-AUG-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local Similarity
nes 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NIPPON
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                                                                                                                                                                                                                                                                                                                                                                                                                                              standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TAAAAAAAAAAAAGTAAA 1536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TAAAAAAAAAAAAAAA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    restriction enzyme;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1.1%;
ilarity 88.9%;
Conservative
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                                                                                                                                                                                                                                                                                                                                              (first entry)
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                              93JP-00112515.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2 A;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0 C; 0 G; 18 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                              primer used in cDNA analysis technique.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        primer used
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                                                                                                                                                                                                                                               reverse transcription;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ВB
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Pred. No. 4.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cDNA analysis technique.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8; DB 1;
4.4e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        amplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length
                                                                                                                                                                                                                                               primer; cDNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          primer; cDNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
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RESULT 595
AAQ75586/c
ID 75586/c
ID 704-AUG
XX AAQ755
XX AAQ755
XX Analys
KW Aggreg
XX Synthe
PN JP0630
XX JP0630
XX I6-APF
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Best Local S
Matches 16
                                 A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AAQ75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A method for the analysis of cDNA comprises (a) preparing an aggregate (double-stranded cDNAs by using an aggregate of mRNAs and a plural type (labelled reverse transcription primers (GENESEQ files AAQ75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in separate lanes. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 04-AUG-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 1 A; 0 C; 2 G; 17 T; 0 U; 0 Other;
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Analysis of cDNA and gene expression - by amplification of mRNA followed by digestion with restriction enzymes.
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  Analysis; gene expression; reverse transcription; primer; cDNA;
                                                        Reverse transcription primer used in cDNA analysis technique.
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Pred. No. 4.4e+02;
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Pred. No. 4.4e+02;
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                                                                                                             of mRNA followed
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Disclosure; Page 5; llpp; Japanese

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RESULT 599
AAQ75576/c
ID AAQ755
XX AAQ755
XX AAQ755
XX AAQ755
XX ARevers
XX ARalya
DT 04-AUG
DT 04-AUG
XX ARALy
EN JP0630
XX JP0630
XX JP0630
XX JP0630
XX I6-APR
XX I6-APR
XX WPI; 1
CR WPI; 1
CR ARALy
EN WPI; 1
CR ARALY
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Best Local S
Matches 16
                                                                                                            Matches
                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                           A method for the analysis of cDNA comprises (a) preparing an aggregate of double-stranded cDNAs by using an aggregate of mRNAs and a plural type (labelled reverse transcription primers (GENESEQ files AAO75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A method for the analysis of cDNA comprises (a) preparing an aggregate of double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GNNESEQ files AAO75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                                                                                                                                                                                                                            Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1995-018287/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JP06303997-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  aggregate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Reverse transcription primer used in cDNA analysis technique.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               04-AUG-1995
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Analysis of cDNA and gene expression -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Analysis; gene expression; reverse transcription;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (NITE ) NIPPON TELEGRAPH & TELEPHONE CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity 88.9%;
les 16; Conservarion
                                                                                                                                          Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  digestion with restriction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1519
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  18
                                                                                                               16;
                                                                                                                                          Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TAAAAAAAAAAAAAAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TAAAAAAAAAAAGTAAA 1536
                                                    TAAAAAAAAAAGTAAA 1536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  restriction enzyme; 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 1 A; 2 C; 0 G; 17 T; 0 U; 0 Other;
                                                                                                                                                                                                                            BP; 2 A; 0 C; 1 G; 17 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    93JP-00112515
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                                                                                                                                          1.1%;
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                                                                                                                                    Score 14.8; DB 1;
Pred. No. 4.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 14.8;
Pred. No. 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  enzymes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          by amplification of mRNA followed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4.4e+02
                                                                                                                                                                    DB 1; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                primer; cDNA;
                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
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                                                                                                               0
                                                                                                            Gaps
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RESULT 600

W09512808-A1

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AAQ90405/
ID AAQ9
XX AAQ9
XX T2 (1
XX T2; 1
XX T2; 1
XX Synt
XX Synt
XX Synt
XX Key
FH Key
FH Key
FT misc
FT misc
                                                                                                                                                                                                                                                      RESULT 601
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                           A method for the analysis of cDNA comprises (a) preparing an aggregate (double-stranded cDNAs by using an aggregate of mRNAs and a plural type (labelled reverse transcription primers (GENESEQ files AAQ75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Analysis of cDNA and gene expression - by digestion with restriction enzymes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1995-018287/03.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              04-AUG-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAQ75587 standard; DNA;
                                                          misc_feature
                                                                                              Synthetic.
                                                                                                                                 T2; HLA; dQa;
                                                                                                                                                        T2 (synthetic DNA probe with 5' amino terminal #4).
                                                                                                                                                                                  08-JAN-1996
                                                                                                                                                                                                        AAQ90405;
                                                                                                                                                                                                                               AAQ90405
                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20 BP; 1 A; 1 C; 1 G; 17 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 5; 11pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JP06303997-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    aggregate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Analysis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Reverse transcription primer used in cDNA analysis technique.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAQ75587;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-APR-1993;
                                                                                                                                                                                                                                                                                                                1519 ТАЛАЛАЛАЛАЛАГТАЛА 1536
                                                                                                                                                                                                                                                                                         18
                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                               standard;
                                                                                                                                                                                                                                                                                          TAAAAAAAAAAAAAAAA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     restriction enzyme; ss
                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first
                                                                                                                                  self-addressable electronic device; SAED;
                                                                                                                                                                                (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               expression; reverse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                93JP-00112515
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                                  /*tag=
/note=
                                                                     Location/Qualifiers
                                                                                                                                                                                                                                DNA;
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                                     aminolink2 Thymine; allows
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Pred. No. 4.4e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               transcription; primer; cDNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          by amplification of mRNA followed
                                                                                                                                                                                                                                                                                                                                                                DB 1;
                                                                                                                                                                                                                                                                                                                                         2
                                                                                                                                                                                                                                                                                                                                                             Length 20;
                                                                                                                                                                                                                                                                                                                                         Indels
                                     binding
                                                                                                                                  hybridisation;
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RESULT 602
AAT04917/c
ID AAT049
XX
AAT049
AC AAT049
AC AAT049
XX
IS-MAR
DT 25-MAR
DT 15-MAY
XX
XX
IS-MAR
DE Mammal
XX
XX
Cransp
XX
Cransp
XX
EP6764
XX
EP6764
XX
IS-OCT
XX
IS-OCT
PR 11-JUN
PR 24-AUG
PR 24-AUG
PR 28-SEP
PR 01-OCT
XX
AMGE-
XX
AMGE-
XX
PI Z8ebo
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                      16-OCT-1989;
11-JUN-1990;
24-AUG-1990;
28-SEP-1990;
01-OCT-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The sequences represented by, AAQ90402-15 are synthetic DNA probes containing 5' amino termini. The sequences shown in AAQ90390-401 are synthetic DNA probes with 3' ribonucleoside termini. These sequences were specific for the polymorphisms of HLA gene dQa. The sequences were used in the device of the invention. This is a self-addressable electronic device (SAED) that can be used to carry out multi-step and multiplex reactions, such as nucleic acid hybridisations. The advantages of this method are that these reactions can be carried out with complete and precise electronic control, and that the rate, specificity and
                                                                                                                                                                                                                                                      Stem cell factor; progenitor; haematopoiesis; SCF; anaemia; thrombocytopenia; leucopenia; AIDS; immunodeficiency; bone graft; transplant; neoplasia; myelosuppression; bone marrow; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New self-addressable electronic devices - used for multi-step and multiplex reactions such as DNA hybridisation(s), clinical diagnostics and bio:polymer synthesis.
  Zsebo KM,
                                                                                                                                            04-OCT-1990;
                                                                                                                                                                        11-OCT-1995
                                                                                                                                                                                                   EP676470-A1
                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                                                                                                                                                                              25-MAR-2003
15-MAY-1996
                                                                                                                                                                                                                                                                                                                                                                                       AAT04917;
                                                                                                                                                                                                                                                                                                                                                                                                                   AAT04917
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11-MAY-1995
                                                                                                                                                                                                                                                                                                                Mammalian stem cell factor (SCF) cDNA oligonucleotide primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sensitivity of these reactions are greatly improved at micro-locations
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (NANO-) NANOGEN INC
                             (AMGE-) AMGEN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16;
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                                                                                                                                                                                                                                                                                                                                                                                                                    standard;
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Sugge SV,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                           (revised)
(first entry)
                             INC.
                                                      89US-00422383.
90US-00537198.
90US-00573616.
90WO-US005548.
90US-00589701.
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                                                                                                                                            95EP-00105391
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                                                                                                                                                                                                                                                                                                                                                                                                                   CDNA;
  Bosselman
                                                                                                                                                                                                                                                                                                                                                                                                                    20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.8; DB 1;
Pred. No. 4.4e+02;
0; Mismatches 2
  ŖĄ,
  Martin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 1;
  FH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length
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ARTSULT 603
AAT04918/c
ID AAT04918;
XX AAT04918;
AC AAT04918;
XX AAT04918;
AC Stem cell
KW thrombocyt
KW transplant
KW transplant
COS Synthetic.
XX EP676470-1
XX EP676470-1
XX EP676470-1
XX AC EP676470-1
XX I6-OCT-198
XX 16-OCT-198
XX 16-OCT-198
XX 11-JUN-199
PR 24-AUG-199
PR 26-SEP-199
PR 26-SEP-199
PR 26-SED
XX AMPI; 1995
XX MPI; 1995
XX New Stem C
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Best Local (
                                                                                                                                                                16-OCT-1989;
11-JUN-1990;
24-AUG-1990;
28-SEP-1990;
                                                                                                                                                                                                                                                                                                                                                                                                      Stem cell factor; progenitor; haematopoiesis; SCF; anaemia; thrombocytopenia; leucopenia; AIDS; immunodeficiency; bone graft; rrananlant: neoplasia; myelosuppression; bone marrow; ss.
                                                                                                                                                                                                                                                                                                                                                                    Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25-MAR-2003
15-MAY-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20
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                                      WPI; 1995-346090/45.
                                                                                                                                                                                                                                                           04-OCT-1990;
                                                                                                                                                                                                                                                                                               11-OCT-1995.
                                                                                                                                                                                                                                                                                                                                 EP676470-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mammalian
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                                                                                                              (AMGE-) AMGEN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                standard; cDNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  stem
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                                                                        Sugga SV,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP; 0 A; 0 C; 2 G; 18 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (revised)
(first entry)
                                                                                                            INC.
                                                                                                                                                              89US-00422383.
90US-00537198.
90US-00573616.
90WO-US005548.
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                                                                                                                                                  90US-00589701
                                                                                                                                                                                                                                                           95EP-00105391.
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                                                                          Bosselman
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14.8;
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                                                                          Martin
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New stem cell factor polypeptide(s) - for stimulating the growth

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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            atimulate growth of primitive progenitors such as haematopoietic progenitor cells, neural stem cells and primordial germ stem cells. The peptides can be used in a composition for treating leucopenia, anaemia or thrombocytopenia, for enhancing engraftment of bone marrow during transplantation or for bone marrow recovery after chemotherapy or radiation-induced bone marrow aplasia or myelosuppression. They can also be used for treating neoplasia, nerve damage, infertility, intestinal damage or myeloproliferative disorders. Antibodies may be raised against the peptides for use in detection or neutralisation of SCF in serum. SCF may be useful for the treatment of AIDS and severe combined immunodeficiency (SCID) states alone or in combination with other factors such as IL-7. (Updated on 25-MAR-2003 to correct PF field.)
The present sequence represents a primer used in an example in the present invention describing corn barnacle G-protein binding receptor secondary gene. Corn barnacles, which attach themselves to the bottoms of ships, wharfs and drainage, cause serious damage in industry. The corn barnacle G-protein binding receptor secondary gene, which is involved in the mechanisms of such attachment, can be used to develop a protection against corn barnacle attachment. The invention comprises isolating and
                                                                                                                                                               Corn barnacle G-protein binding develop protection against corn ships, wharf(s) and drainage.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAT04915-T04922 are oligonucleotide primers and probes used for the amplification and sequencing of mammalian stem cell factor (SCF). Non-naturally occuring SCF and C-terminally truncated polypeptides, having amino acid sequences sufficiently duplicative of naturally ocurring SCF.
                                                                                                                                  Example 1;
                                                                                                                                                                                                                                                                                                   13-MAR-1996;
                                                                                                                                                                                                                                                                                                                                  13-MAR-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Corn barnacle; G-protein; bir
protection; wharf; drainage;
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                                                                                                                                                                                                                                                                   (KAIY-) KAIYO
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                                                                                                                              Page 4; 6pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 0 A;
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                                                                                                                                  Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 binding receptor; secondary gene; ship;
ge; primer; ss.
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Pred. No. 4.4e
0; Mismatches
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                                                                                                                                                                                  receptor secondary gene - barnacle attachment, e.g.
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Query Match
Best Local S
Matches 16
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Best Local (
                                                                                                                                                               Oligonucleotides having a partial sequence consisting of at least 15 bases of AAT63641 (an antisense oligo complementary to a region of the tax gene which can inhibit human T-cell lymphotropic virus type 1 (HTLV-1) viral antigen expression) are claimed. In an example, six antisense oligos were designed, T1-T6 (AAT63650-55) and were compared to six oligos derived from other regions of HTLV-1, i.e. S21 (splice junction), P1 (p21), R1 (rex), RR1 (rex response element), E1 (env) and G1 (gag), four reference oligonucleotides TIS (tax-sense), HC (dC20), HT (dT20) (AAT63647-49) and a random 20mer (RAN) in a HTLV-1 virus antigen expression inhibiting test. Oligonucleotide T1 gave the best results
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Anti-HTLV-1 anti-sense oligo:nucleotide - is complementary to region of tax gene from human T-cell lymphotropic virus type 1 and inhibits viral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
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                                                                                                               Sequence 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            antigen expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09-AUG-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    09-AUG-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     827 CGTCATCAGGCGCGTGTT
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Conservative
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                                                                                                               A; 0 C; 0 G; 20 T; 0 U; 0 Other;
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                             Score 14.8;
Pred. No. 4.
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Pred. No. 4
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                             4.4e+02;
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                                                          DB 1;
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                                                          Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 expression;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
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  Gaps
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RESULT 606
AAV34591
ID AAV345
XX AAV345
XX AAV345
XX AAV345
XX AAV345
XX Mycoba
XX Mycoba
XX Mycoba
XX Synthe
OS Synthe
OS Mycoba
XX WO9808
XX WO9808
XX O5-MAF
XX 29-AUC
PF 28-AUC
PF 28-AUC
PF 12-JUD
XX GENE:
XX WPI;
XX Hycoba
PT Mycoba
PT Trespoi
XX Examp
XX Examp
XX Examp
XX Examp
XX Examp
XX This
CC Mycoba
PT Trespoi
CC Trespo
CC Inter
CC Golle
CC inter
CC i
RESULT 607
AAV69670
ID AAV696
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AC AAV696
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AC AAV696
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OT 02-FEB
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                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                             Query Match
Best Local !
                                                                                                                                                                                                                                                                                                                                                                                                                                     This oligonucleotide is used in the DNA cloning strategies of the Mycobacterium vaccae antigens. The invention provides M. vaccae polypeptides that comprise an immunogenic portion of a soluble M. vaccae antigen, or a variant, where the antigen induces an immune response in patients previously exposed to a mycobacterium. Such M. vaccae polypeptides can be used in methods for enhancing non-specific immune response. The methods and products can be used for the detection, treatment and prevention of infectious diseases caused by mycobacteria such as M. vaccae, M. avium or M. tuberculosis. The products also have the ability to induce cell proliferation and cytokine production (e.g. interferon-gamma and interleukin-12 production) in T cells, NX cells. B cells, or macrophages. They can be used for enhancing immune responses for use in vaccines or immunotherapy of infectious diseases and cancers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mycobacterium vaccae; antigen; therapy; prevention; cytokine production; M. avium; M. tuberculosis; immune response enhancer; cell proliferation; mycobacteria infection; vaccine; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAV34591 standard; DNA; 20 BP
  02-FEB-1999
                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 8; Page 99; 153pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mycobacterium vaccae polypeptides - used to develop products for use in detection, therapy and prevention of mycobacteria infections or as immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1998-216926/19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tan P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29-AUG-1996;
12-JUN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25-AUG-1998 (first entry)
                                                AAV69670;
                                                                                           AAV69670 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (GENE-) GENESIS RES & DEV CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-AUG-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               05-MAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO9808542-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mycobacterium vaccae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAV34591;
                                                                                                                                                                                                                                                         1520 АААААААААААСТАААА 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20
                                                                                                                                                                                                                                                                                                         16;
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                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                20 BP; 20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                             AAAAAAAAAAAAAAA 18
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                                                                                                                                                                                                                                                                                                         Conservative
    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           96US-00705347.
97US-00873970.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Visser E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sequence hybridising oligo AD12.
                                                                                                                                                                                                                                                                                                                             1.1%;
                                                                                                                                                                                                                                                                                                       .
                                                                                                                                                                                                                                                                                                       Score 14.8; DB 1;
Pred. No. 4.4e+02;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Skinner MA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Scott LM,
                                                                                                                                                                                                                                                                                                                                                  Length 20;
                                                                                                                                                                                                                                                                                                         Indels
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                                                                                                                                                                                                                                                                                                         <u>.</u>
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AAT86606/C
ID AAT866
XX AAT866
XX AAT866
XX AAT866
XX AAT866
XX AAT866
XX DT 04-JUN
XX Capill
KW Capill
KW polyac
XX Polyac
XX JYnthe
XX Synthe
XX AY A-DEC
XX XX AAT84
PF 23-MAY
XX XX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequences AAV69651 to AAV69684 represent PCR primers used for localisation of the genes of the invention which occur on the non-recombining region of the human Y chromosome. The gene sequences fall into two classes: (1) X-homologous DNA which are expressed in many organs, having functional X homologues and (2) testis-specific DNA sequences. Y chromosomal DNA from males with known conditions such as infertility and reduced sperm count can be assessed using the invention to determine whether the condition is associated with or caused by the occurrence of the gene or gene alteration. Candidate inhibitors of the enzymatic activity of the genes can be assessed using in vitro assays
                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                            polyacrylamide;
                                                                                                                                                                                                                                                                                             Oligonucleotide separated by capillary affinity gel electrophoresis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 2; Page 30; 54pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel genes in the non-combining region of Y chromosome - useful t diagnose if male infertility or reduced sperm count has a genetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1998-568729/48
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11-APR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22-OCT-1998.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Non-recombining region; human; Y chromosome; X homologue; testis; sperm; infertility; gene alteration; inhibitor; PTPRY; PCR primer; ss.
                         24-MAY-1996;
                                                              23-MAY-1997;
                                                                                                                                                WO9745721-A1
                                                                                                                                                                                                                                                 Capillary afinity gel electrophoresis; separation; polymer-gel;
                                                                                                                                                                                                                                                                                                                                      04-JUN-1998
                                                                                                                                                                                                                                                                                                                                                                               AAT86606;
                                                                                                                                                                                                                                                                                                                                                                                                                      AAT86606 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 20 BP; 4 A; 7 C; 5 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (WHED ) WHITEHEAD INST BIOMEDICAL RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10-APR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PTPRY gene specific right primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       662 CTCAGACTCACCTCTGAC 679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1.1%;
Similarity 88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTCAGACTGACCTCGGAC 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Page DC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                gene
                                                                                                                                                                                                                                                                                                                                      (first entry)
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                         96CH-00001320
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                                                                97WO-EP002647.
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Pred. No. 4.4e+02;
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RESULT 609
ANX27533/c
ID AAX275
XX AAX275
XX Synthe
XX Silylc
KW Silylc
KW Cyanoe
XX WO9909
PN WO9909
PN WO9909
PN WO9909
YX WO9909
YX WO9909
PN W
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A mixture of oligonucleotides (AAT86604-7) were separated by a new CC process using capillary affinity gel electrophoresis. The invention CC relates to selective separation of electrically charged target molecules CC in an analytical mixture. It comprises capillary affinity gel CC electrophoresis using a capillary tube which is at least partly filled CC with a polymer gel. Receptors for target molecules are covalently bound CC with a polymer. An electric field of at least 50 volts/cm is applied. The CC capillary tube is charged with the analytical mixture. In a first CC separation stage, the target molecules in the mixture are bound to the receptors and the remaining components are eluted, optionally whilst gplitting open. In a second stage, the elution conditions are changed, optionally in stages, so that the affinity of the target molecules for CC the receptor is eliminated and the target molecules are eluted and CC detected, optionally whilst splitting open. The process is useful for Selective separation and/or determination of charged organic compounds, such as oligonucleotides, peptides or carbohydrates. It may be used, e.g. CC for isolation of specific proteins and DNA molecules, purification of cantibodies, analysis of antisense compounds or screening for enzyme CC inhibitors. The processes achieves higher resolution and selectivity than processes achieves higher resolution and selectivity than case of complex biological canalytical mixtures. It has high sensitivity, even with small amounts of samples. The derivatised polymers may be synthesised specifically using catalogue.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                         25-FEB-1999
                                                                                                                                                                                                                                                                                                                                   WO9909044-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Silyloxymethyl; phosphonate; silyloxymethyl halide; diagnosis; ss; cyanoethyl phosphoramidate coupling; isomerisation; steric hindrance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic RNA sequence produced by the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        27-MAY-1999
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   (PITS/) PITSCH S.
(WEIS/) WEISS P A
(JENN/) JENNY L.
                                                                                                                                    18-AUG-1997;
                                                                                                                                                                                                        17-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (NOVS ) NOVARTIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1520 AAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ty gel electrically charged target molecules - by capillary ty gel electrophoresis using polymer-gel to which receptors for molecules are bound.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   standard; RNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20 BP; 0 A; 0 C; 0 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAAAAAAAAAAAAA 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Paulus A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                        97CH-00001931
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Pred. No. 4.4e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2; Indels
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squamous cell carcinoma; melanoma; PCR primer; ss.

Synthetic

Mycobacterium vaccae

WO9932634-A2

dendritic cell maturation; infectious disease; immune disorder; can respiratory system; mycobacterial infection; allergy; tuberculosis; leprosy; sarcoidosis; lung cancer; asthma; skin disorder; psoriasis dermatitis; eczema; alopecia areata; skin cancer; basal carcinoma;

Mycobacterium vaccae protein; antigen; T cell activation; cytokine;

cancer;

Mycobacterial 16S rRNA specific oligo AD12.

25-OCT-1999 AAZ11326;

(first

entry)

AAZ11326 standard;

DNA;

20 BP

23-DEC-1997; 23-DEC-1997; 23-DEC-1997; 11-JUN-1998; 17-SEP-1998;

97US-00996624. 97US-00997080. 97US-00997362. 98US-00095855.

23-DEC-1998 01-JUL-1999

98WO-NZ000189.

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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                 silyloxymethyl halide reagent is easy to prepare, and yields are high. Introduction of the silyloxymethyl group into the ribonucleoside is simple and rapid, and the acetal bond formed does not migrate, eliminating particularly the prior art problem of 2' to 3' isomerisation. The methylenedioxy group spacer between the silyl group and nucleoside ring results in less steric hindrance than bulky direct silyloxy linkages, enabling first, a range of choices for the silyl substituents, to provide, e.g., acid or base stability, and second, higher yields in coupling. Purer products are therefore obtained than in prior art, enabling larger quantities and longer chains of oligoribonucleotides to be synthesised successfully, and in shorter times
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to silyloxymethyl protected D- or L-ribonucleosides and their phosphonates (I), and silyloxymethyl halides (II). (I) are intermediates for synthesis of RNA-Oligonucleotides with predetermined nucleotide sequence, particularly by machine synthesis. The groups specified above, apart from those on silyl, are those particularly for the sequence of the sequence o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         specified above, apart from those on silyl, are those particularly for the cyanoethyl phosphoramidate coupling. Uses of the oligoribonucleotide products in diagnosis, therapy, and as research tools, are well known, and are not dealt with in detail. (II) is an intermediate for (I). The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       high purity, use in machine synthes oligonucleotide chain construction,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2-Silyloxymethyl ribonucleosides and their phosphonate derivatives - have high purity, use in machine synthesis of ribonucleic acids, enable longer
                                                                                                                                                                                                                                                                                                                                Sequence 20 BP; 0 A; 0 C; 0 G; 0 T; 20 U; 0 Other;
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                                                                         1520 АААААААААААСТААА 1537
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AAAAAAAAAAAAAAAA 3
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                                                                                                                                                            Conservative
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                                                                                                                                                                                                       Score 14.8; DB 1;
Pred. No. 4.4e+02;
                                                                                                                                                                    Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention provides heat-killed Mycobacterium vaccae, or recombinant CC M. vaccae proteins. The M. vaccae proteins may be employed to activate T CC cells and natural killer cells, to stimulate the production of cytokines, CC to enhance the expression of co-stimulatory molecules on dendritic cells and monocytes, and to enhance dendritic cell maturation and function. The CC proteins can be expressed by standard recombinant methodology.

CC Pharmaceutical compositions comprising the proteins or nucleic acid companies comprising the proteins or nucleic acid CC sequences encoding the proteins can be used for the treatment, CC immune disorders and cancer. In particular, the compounds and methods are used for treatment of diseases of the respiratory system, such as CC mycobacterial infections, asthma, allergies, tuberculosis, leprosy, CC sarcoidosis and lung cancers, and disorders of the skin such as CC mycobacterial infections, asthma, allergies, tuberculosis, leprosy, CC sarcoidosis areata, and skin cancers such as basal carcinoma, squamous cell allegics areata, and skin cancers such as basal carcinoma, squamous cell
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Best Local S
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   Quantitative analysis of a biochemical a body fluid such as blood, comprising
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Electrochemical detection; glucose; cholesterol; urea nitrogen; bilirubin; uric acid; haemoglobin; lactic acid; body fluid; blood; plasma; serum; urine; lymph diagnosis; ss.
                                                                                            WPI; 2000-444372/39
                                                                                                                                                                                                                                                                                   06-JAN-1999;
24-MAY-1999;
                                                                                                                                                                                                                                                                                                                                                                             07-JAN-2000; 2000EP-00100126.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EP1018646-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Electochemical detection method sample DNA target.
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                                                                                                                                                         Takenaka S,
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                                                                                                                                                                                                                                                                                99JP-00001111.
99JP-00143599.
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Pred. No. 4.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 G; 0 T; 0 U; 0 Other;
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   compound such as glucose, is detecting enhanced electron
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This invention describes a novel method for quantitatively analysing a CC biochemical compound (I) which comprises contacting (I) with double stranded DNA fixed to the surface of an electrode at their terminals in which electrochemically active threading intercalators are intercalated, in an aqueous medium under application of electric potential to the celectrode in the presence of an oxidase which oxidizes the biochemical compound and becomes reduced, and detecting electric current flowing between the electrode and a second electrode in the aqueous medium. The method is useful for detection of biochemical compounds such as glucose, collesterol, urea nitrogen, bilirubin, uric acid, haemoglobin and lactic acid in body fluids such as whole blood, plasma, serum, urine, and lymph for diagnosis of various diseases. The method allows detection of biochemical compounds quickly and easily with a high sensitivity using a simple apparatus. This sequence represents DNA fragment used as a target can be compounded to the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          transfer between an oxidase and a DNA-immobilized electrode, useful diagnosis of disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example
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Query Match
Best Local S
Matches 16
          1520 AAAAAAAAAAAAGTAAAA 1537
                                  16;
1 AAAAAAAAAAAAAAAAAA
                                           Similarity
                                  Conservative
                                         1.1%;
                                 Score 14.8; D
Pred. No. 4.4e
0; Mismatches
                                  0;
                                          4.4e+02;
                                                   DB 1;
                                                  Length
                                                    20;
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Sequence 20

B₽;

20 A; 0 C; 0 G; 0 T; 0 U;

0 Other;

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RESULT 612
AAA40448/c
ID AAA404
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XX E
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24-MAY-1999;
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99JP-00143599.
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This invention describes a novel method for quantitatively analysing biochemical compound (I) which comprises contacting (I) with double stranded DNA fixed to the surface of an electrode at their terminals

Example

Page

7; 14pp;

English

Quantitative analysis of a biochemical compound such as glucose, in a body fluid such as blood, comprising detecting enhanced electron transfer between an oxidase and a DNA-immobilized electrode, useful diagnosis of disease.

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Ogawa M,

Takenaka S,

Takagi M;

(FUJF ) FUJI PHOTO FILM CO LTD

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RESULT 613
AAA13752/c
ID AAA137
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XX I10ge
XX I2-Apr
PR 11-JUN
PR 11
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11-JUN-1990;
24-AUG-1990;
28-SEP-1990;
01-OCT-1990;
04-OCT-1990;
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administration to a subject. The method comprises: (a) obtaining haematopoietic progenitor cells from a donor; and (b) expanding the by adding to the cells a haematopoietically effective dose of a polypeptide product having at least part of the primary structural confirmation and one or more of the biological properties of natural
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Stem cell factor; SCF; haematopoietic progenitor cell; blood forming; primitive progenitor cell; haematopoietic disorder; syngeneic; altologous bone marrow transplant; gene therapy; transfection; haematopoietic stem cell; acute blood loss; neoplasia;
                                                                                                                                       A method has been developed of making haematopoietic cells suitable
                                                                                                                                                                                            Example
                                                                                                                                                                                                                                                                          subject
                                                                                                                                                                                                                                                                                                     Production
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16; Conserv
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progenitor cells
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90US-00537198.
90US-00573616.
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90US-00589701.
90EP-00310899.
                                                                                                                                                                                         12C; 123pp;
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                                                                                                                                                                                                                                                                                                                                                                                                               Bosselmann RA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20
                                                                                                                                                                                         English.
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Pred. No. 4
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                                                                                                                                                                                                                                                                          expanding
                                                                                                                                                                                                                                                                                                                                                                                                               Martin
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RESULT 614
AAA13754/c
ID AAA137
XX AAA137
XX AAA137
XX Stem c
XX Cancer
XX C
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           occurring stem cell factor (SCF). The method is useful for stimulating primitive progenitor cells including early haematopoletic progenitor cells which are capable of maturing to erythroid, megakarycyte, which are capable of maturing to erythroid, megakarycyte, cells which are capable of maturing to erythroid, megakarycyte, in absolute increases in haematopoletic cells. SCF results in absolute increases in haematopoletic disorders. The method is useful for treating haematopoletic disorders. The method is useful for expanding early haematopoletic progenitors in syngeneic, allogeneic or autologous bone marrow transplant. SCF is useful for enhancing the efficiency of gene therapy based on transfecting haematopoletic stem cells. SCF is also useful for combating the myslosuppressive effects of anti-HIV drugs such as AZT and for enhancing haematopoletic recovery cafter acute blood loss and as a boost to the immune system for fighting nephasia (cancer). The present sequence represents a universal coligonucleotide which is used in an example from the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                               11-JUN-1990;
24-AUG-1990;
28-SEP-1990;
01-OCT-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     primitive progenitor cell; haematopoietic disorder; allogeneic; autologous bone marrow transplant; gene transfection; haematopoietic stem cell; acute blood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Stem cell
                                                                                                                                                                                                                         Production
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   04-OCT-1990;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Stem cell factor universal oligonucleotide 220-11.
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                                                                                                                                                                           factor.
                                                                                                                                                                                                                                                                         WPI; 2000-259135/23.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16-OCT-1989;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    factor;
                                                                                                                                                                                                                                                                                                                       Suggs
                                                                                                                                                                                                    of hematopoietic cells suitable for administration to ing progenitor cells and expanding the cells using sten
                                                                                                                          Fig
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                                                                                                                                                                                                                                                                                                                                                                             INC.
                                                                                                                                                                                                  progenitor
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90US-00573616.
90WO-US005548.
90US-00589701.
90EP-00310899.
                                                                                                                          12C;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DNA;
                                                                                                                          123pp;
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                                                                                                                                                                                                                                                                                                                            Bosselmann
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                                                                                                                        English.
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Pred.
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No. 4.4e+02;
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                                                                                                                                                                                                                                                                                                                            Martin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0 Other;
                                                                                                                                                                                                                                                                                                                            FH
                                                                                                                                                                                               cells using
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cell;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; syngeneic;
e therapy;
d loss; neopl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 blood forming;
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                                                                                                                                                                                                    stem cell
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A method has been developed of making haematopoietic cells suitable administration to a subject. The method comprises: (a) obtaining haematopoietic progenitor cells from a donor; and (b) expanding the by adding to the cells a haematopoietically effective dose of a

Example

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RESULT 615
AAZ91117/C
ID AAZ911
XX AAZ911
XX AAG
DT 06-JUN
XX AD1eta
A (INMR
XX AD1-JUL
XX AD1
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Best Local (
derivatives. The new compounds may be used directly or indirectly in the development of new diagnostic tests, to follow infections, especially viral infections, to follow and/or measure chemical products, especially potential pollutants. In diagnostic tests they may be used as markers, or to form a universal solid phase after immobilization on a solid support, to produce monoclonal antibodies or polyclonal antibodies having diagnostic uses. The oligonucleotides AAZ91113-Z91117 represent examples of sequences that can be labeled with the new abietane derivatives. The new derivatives may be used to substitute for biotin in diagnostic tests, but because they are not found naturally in humans the risk of potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Saturated and unsaturated derivatives of abietic a conjugated derivatives with natural and synthetic diagnostics, chemical reactions and analysis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      31-JUL-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Oligonucleotide #5 for conjugation to abietane derivative.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-JUN-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Charles MH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               31-JUL-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to novel saturated and unsaturated abietane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 5; Page 20; 39pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (INMR ) BIO
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Piga N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98FR-00010084
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Pred. No. 4.4e+02;
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The present sequence is that of a phosphodiester oligonucleotide CC containing 20 T nucleobases, 19 having a 2'-methoxyethoxy group on its 5' CC containing to The methods of the invention. The invention provides according to the methods of the invention. The invention provides CC compounds and methods for the preparation of mixed backbone oligomeric, compounds having phosphodiester internucleoside linkages in addition to phosphorethicate and/or phosphoranidate internucleoside CC inkages. The methods also include incorporation of boranophosphate CC internucleoside linkages. The methods utilise H-phosphonate internucleoside that are coupled together forming contiguous regions of lor more H-CC phosphonate internucleoside linkages. Each contiguous region is subsequently oxidized to phosphodiester, phosphorothicate, phosphoroamidate or boranophosphate internucleoside linkages prior to CC this manner by oxidized to phosphodiester, phosphorothicate, CC this manner by oxidizing adjacent regions with different reagents. CC oxidized to invention are prepared using novel oxidation steps that oxidize a region of 1 or more H-phosphonate internucleoside linkages without degrading existing linkages that have been previously coxidized. The oligonucleotides obtained are useful as primers in PCR, CC biological tissue, fluid, cells etc., as research reagents, and as
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                                                                                                                                                                                                                                                                                                                                                                      Example 12;
                                                                                                                                                                                                                                                                                                                                                                                                  Preparation of mixed backbone oligomeric compounds useful as e.g. primers for diagnostic tests, involves oxidation of H-phosphonate internucleoside linkages to phosphodiester internucleoside linkages.
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The invention relates to the use of an immunostimulatory single-stranded CC DNA-binding protein in screening assays to identify compounds which bind CC to it and thereby act as functional modifiers of immunostimulatory CC oligodeoxynucleotide (ODN) activity. Such modifiers of DNN activity CC consist of immunostimulatory DNA binding inhibitors, immunostimulatory CC DNA mimics, and immunostimulatory DNA bounding proteins can also be used in screening CC Immunostimulatory DNA-binding proteins can also be used in screening CC methods to identify immunostimulatory DNA binding competitors, and to optimize an immunostimulatory DNA-binding protein bound to an immunostimulatory DNA-binding proteins of cc the immunostimulatory DNA The immunostimulatory DNA-binding proteins cused in the methods of the invention are the RNA-binding proteins competed in the methods of the invention are the RNA-binding proteins competed in the methods of the invention are the RNA-binding proteins competed that inhibits interaction between immunostimulatory DNA and an immunostimulatory DNA-binding complex complex useful in screening for immunostimulatory DNA cellular target complex complex useful in screening for immunostimulatory DNA cellular target
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03-MAR-2000; 2000US-0186845P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Immunostimulatory DNA binding proteins to identify immunostimulatory functional modifiers, immunostimulatory DNA binding competitors and toptimize immunostimulatory oligodeoxynucleotides for stimulation.
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                             The invention relates to the use of an immunostimulatory single-stranded CDMA-binding protein in screening assays to identify compounds which bind CC to it and thereby act as functional modifiers of immunostimulatory CC oligodeoxynucleotide (ODN) activity. Such modifiers of DDN activity CC consist of immunostimulatory DNA binding inhibitors, immunostimulatory CDM agonists and antagonists.

CC Immunostimulatory DNA-binding proteins can also be used in screening CC methods to identify immunostimulatory DNA binding competitors, and to coptimize an immunostimulatory ODN for immune stimulators. Isolated CC complexes of an immunostimulatory DNA-binding protein bound to an CC immunostimulatory ODN can additionally be used to screen a panel of CC candidate target molecules to identify the cellular target molecules of the immunostimulatory DNA-binding proteins CC used in the methods of the invention are the RNA-binding proteins CC useful are to identify the cellular target molecules of the invention are the RNA-binding proteins CC useful are to identify the call the screening CC useful are the invention are the RNA-binding proteins contention are the screening CC useful are to identify the collular target molecules of the invention are the RNA-binding proteins contention are the screening CC useful are to identify the collular target increasing CC useful are to identify the collular target molecules of the invention are the RNA-binding proteins contention are the screening contention are the screening that the collular target molecules in the methods of the invention are the screening that invention are the screening that the collular target molecules are useful for identify the collular target molecules of the invention are the screening that the screening the screening that the collular target molecules of the invention are the screening that the screening that the screening the screening that the screenin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Immunostimulatory DNA binding proteins to identify immunostimulatory functional modifiers, immunostimulatory DNA binding competitors and optimize immunostimulatory oligodeoxynucleotides for stimulation.
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Immunostimulatory oligodeoxyr
KW immunostimulatory oligodeoxyr
KW antagonist; mimic; inhibitor;
KW cellular target identificati(
KW immunotherapy; ss.

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Immunostimulatory DNA bindin
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   The invention relates to the use of an immunostimulatory single-stranded DNA-binding protein in screening assays to identify compounds which bind to it and thereby act as functional modifiers of immunostimulatory oligodeoxynucleotide (DNA) activity. Such modifiers of DNA activity consist of immunostimulatory DNA binding inhibitors, immunostimulatory DNA mimics, and immunostimulatory DNA agonists and antagonists. Immunostimulatory DNA binding proteins can also be used in screening methods to identify immunostimulatory DNA binding competitors, and to optimize an immunostimulatory DNA binding protein bound to an immunostimulatory DNA-binding proteins of the immunostimulatory ODN. The immunostimulatory DNA-binding proteins
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03-MAR-2000; 2000US-0186845P.
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                                                                                                                                                                                                                                                                                                                                                                                                                   Example 1; Page 45; 95pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28-APR-2000; 2000WO-US011697.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Poly T oligonucleotide, SEQ ID NO:20.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             represents an oligonucleotide used in an exemplification of the invention
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nes 16; Conser
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Krieg
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Pred. No. 4
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RESULT 620
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Best Local S
Matches 16
                                       The sequence represents a synthetic DNA template molecule used to a demonstrate the method of the invention. The invention relates to a method of modifying (e.g. 3' end labelling with 32P dATP) the 3' terminus of an RNA molecule by providing a DNA oligonucleotide, complimentary to the 3' end of the RNA molecule, with an overhang at the 5' end which allows incorporation of the labeling nucleotide into the RNA molecule. The method, based on the synthesis of Okazaki fragments, is useful for labeling and modifying the 3'-termini of other nucleic acids such as DNA fragments. The method is a simple and efficient way of labeling or modifying RNA 3'-termini using DNA polymerase and a synthetic template with definal complants.
                                                                                                                                                                                                                                                                                                                                                                                                              (CHEN/) CHEN G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    used in the methods of the invention are the RNA-binding proteins nucleolin, hnRNP D, AUF1, hnRNP A1 and lupus La protein. The screening methods are useful for identifying a compound that inhibits interaction between immunostimulatory DNA and an immunostimulatory DNA-binding protein and for identifying agonists useful in immunotherapy. The complex is useful in screening for immunostimulatory DNA cellular target molecules. The candidate immunostimulatory DNN competitors allow the investigation of structure/activity relationships of immunostimulatory DNA-binding proteins and immunostimulatory ODNs. The present sequence represents an oligonucleotide used in an exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ψ
                                                                                                                                                                                                                                                            Modifying a 3' terminus of a pre-selected DNA sequence, useful for labeling and modifying 3'-termini of other nucleic acids, comprises a synthetic nucleotide template with a defined overhang nucleotide.
                                                                                                                                                                                                                                                                                                                                                                Huang Z,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16-OCT-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US6238865-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA template
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAS10402;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAS10402 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20
                                                                                                                                                                                                                              Example 5; Col 13; 22pp; English.
                                                                                                                                                                                                                                                                                                                                 WPI; 2001-366470/38.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29-MAY-2001.
                                                                                                                                                                                                                                                                                                                                                                                                 (SZOS/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RNA end labeling;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1520 AAAAAAAAAAAAGTAAAA 1537
                             defined overhang nucleotides
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     h 1.1%;
Similarity 88.9%;
16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                  SZOSTAK J W.
                                                                                                                                                                                                                                                                                                                                                                Szostak JW;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    for 3' end labeling of an RNA molecule,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA template; Okazaki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 14.8;
Pred. No. 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    fragment; 5' overhang;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length
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                                                                                                                                                                3' terminus
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Query Match

Sequence 20 BP;

0 A; 0 C; 0 G;

0 Other; DB 1; Length

Score 14.8; 20 T; 0 U;

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RESULT 621
AAD16997/c
ID AAD169
XX AAD169
AC AAD169
XX 29-NOV
XX Scaffo
KW Scaffo
KW random
XX Fibron
PN WO2001
XX 07-SEP
XX 07-SEP
XX 10PYL-
XX 10PYL-
XX 10Fov8
XX (PHYL-
XX (
RESULT 622
AAF44607/c
ID AAF446
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                   fibronectin, immobilised onto a solid support. The antibody mimics is useful for detecting a compound preferably a protein, in a biological sample. It is also useful to detect one or more different analytes simultaneously in a sample. Hence is useful for diagnostic purposes. It is also useful for the purpose of designing proteins capable of binding to virtually any compound of interest. The present sequence is a capture probe used to self-assemble and anchor the tenth module of human fibronectin module of type III (Fn3) (10Fn3) which is used in an exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to an array of proteins (antibody mimics) comprising a fibronectin type III domain having a randomised loop, a randomised beta-sheet, or their combination, and has the capacity to bind to a compound that is not bound by a corresponding naturally- occurring
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Fibronectin scaffold protein array for obtaining a protein/compound which binds to a compound/protein, comprises a fibronectin type III domain having a randomized loop, a randomized beta-sheet or their combination.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Scaffold protein; antibody mimic; fibronectin type III domain; randomised loop; randomised beta-sheet; diagnostic purpose; protein designing; probe; tenth module of human Fn3; 10Fn3; fibronectin module of type III; Fn3; ss.
      AAF44607
                                                                                                                                                                                                                                                                                                                                                                                  Sequence
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                                                                                                                                                                                                                                                                l Similarity
16; Conserv
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      standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAAAAAAAAAGTAAAA 1537
                                                                                                                                                AAAAAAAAAAAAAAAAA 3
                                                                                                                                                                                                                                                                                                                                                                                  BP; 0 A; 0 C; 0 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Page 41; 67pp;
                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Wagner
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      DNA;
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0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                         Score 14.8; DB 1; Length
                                                                                                                                                                                                                                                                                              Pred.
                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                              No. 4.4e+02
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AC AAF
XX
DT 15-

AAF60896

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15-MAY-2001 AAF60896;

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RESULT 623
                                                                                                                                                                                                                                                                                                                                                                                                                                        The present sequence was used to isolate nucleic acid molecules encoding convel protein kinases. The nucleic acids and the proteins they encode may be used in the treatment and diagnosis of diseases associated with canapropriate kinase expression such as immune-related diseases and disorders, cardiovascular disease, neurodegenerative diseases and/or cancers. The nucleic acids and complementary sequences may also be used as DNA probes in diagnostic assays. The kinase polypeptides may be used as antigens in the production of antibodies of kinase expression and activity. Anti-kinase antibodies and kinase antagonists may be used to down regulate kinase expression and activity. Diseases related to kinase expression and activity. Diseases related to kinase expression and activity. Diseases related to the transplantation, myocardial infarction, immune disorders, craftiangulated infarction, immune disorders, complications of organ transplantation, strokes, renal failure, oxidative-stress related continuous continuous disorders, pelvic disease, multiple sclerosis, asthers, cancers and reproductive disorders.
                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                              Query Match
Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nucleic acids encoding kinase polypeptides, useful for diagnosing and treating immune-related diseases and disorders, cardiovascular disease neurodegenerative diseases and/or cancers.
                                                                                                                                                                                                                                                                                                                                                           Sequence 20 BP; 5 A; 7 C; 5 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 1; Page 106; 310pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Plowman GD, Martinez
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-MAY-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mouse; protein kinase; antiarthritic; antisclerotic; immunosuppressive
                                                                                                                                                                   698 CTGGTGAATGGAGTCGCG
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                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                       autoimmunity, diabetes, cancers and reproductive disorders
                                                                                                                                                                                                                               Conservative
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                                                                                                                                                                   715
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Pred. No. 4.
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Conjugate forming oligonucleotide

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CC molecule to be transported and (B) at least one aryl residue of (A) a CC molecule to be transported and (B) at least one aryl residue of formula - CC Ar-(X-(Y)-R_1) n (II). Ar = group containing at least one aromatic ring; CC X = O or N (Gic); Y = O, S or NH-R_2 (Gic); R_1 = optionally substituted CC 1-32C alkyl (optionally containing double and/or triple bonds); R_2 = CC optionally substituted 1-18C alkyl optionally containing double and/or triple bonds); R_2 = CC optionally substituted 1-18C alkyl optionally containing double and/or CC via a chemical group, provided that the chemical group is other than CH_2 CC -s if the bond is via a phosphodicater linkage of (A). The invention also CC describes (i) the preparation of a conjugate (I') of (A') a molecule to CC (III), by preparing (A) containing a reactive function at the position CC and (ii) the use of aryl groups (II) (optionally bonded via a chemical CC group) for transporting (A) across biological membranes. The products of CC the invention have cytostatic, virucide, vasotropic, dermatological, CC antipsoriatic and antiasthmatic activity and can be used for gene therapy. Conjugation of (A) with (B) is useful for transporting (A) across biological membranes. The products of CC specifically bacterial, yeast or mammalian cells, including human cells, particularly tumor cells). Medicaments, diagnostic agents and test kits CC optionally containing (I) are also claimed. Typically (I) are antisense containing (I) are also claimed. Typically (I) are antisense CC labeled oligonucleotides for in vivo diagnostic use, e.g. by in situ centroscopic monitoring of cellular uptake of (I), e.g. oligonucleotides for in vivo diagnostic use, e.g. by in situ centroscopic monitoring of cellular uptake etc. The cellular uptake of (I) is superior to that obtained using other conjugated groups related to confusited so (II) have superior uptake to corresponding fluorescein diacetate (within the scope of (B)) have superior uptake to corresponding fluorescein
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                                                                             Matches
                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New substituted aryl conjugates of parent molecules, especially oligonucleotides, having improved transmembrane and intracellular transport properties, useful as medicaments or diagnostic agents.
                                                                                                                                                      Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2001-203679/21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DE19935302-A1
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                       1520 AAAAAAAAAAAAGTAAAA 1537
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                                                                                               Similarity
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                                                                                                                Score 14.8; DB 1; Length 20;
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The invention relates to a method for detection of nucleic acid (I) cc having at least 2 portions, comprising treatment with nanoparticles that C carry oligonucleotides complementary to at least 2 parts of (I), where CC detectable change caused by hybridisation of the oligonucleotide to (I) ce sobserved. The method is used to detect (or to separate) specific (I), CC e.g. for diagnosing a wide variety of diseases, sequencing, in forensic CC analysis etc., and generally to detect analytes other than (I). The CC oligonucleotide-derivatised nanoparticles are also useful for preparing CC nanostructures useful, for example, as biochips, biofilters, mechanical CC devices, separation membranes, chemical sensors, in computers, and for CC gradued, allowing their direct use (as probes) in polymerase chain CC produced, allowing their direct use (as probes) in polymerase chain CC canage, without the need for special equipment, making possible rapid CC chinge, without the need for special equipment, making possible rapid CC oligonucleotide-nanoparticle probes, and related sequences, used in the method of the invention
                              Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28-MAR-2000; 2000US-0192699P.
26-APR-2000; 2000US-0200161P.
26-JUN-2000; 2000US-00503830.
26-JUN-2000; 2000US-0213906P.
08-DEC-2000; 2000US-0254392P.
11-DEC-2000; 2000US-0255235P.
12-JAN-2001; 2001US-00760500.
28-MAR-2001; 2001US-00820279.
                                                                                                                                                                                                                                                                                                                                                                                                                                            Detecting and separating nucleic acid, useful e.g. for diagnosis, comprises reaction with nanoparticles that carry oligonucleotides complementary to parts of the target.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Oligonucleotide-nanoparticle probe; diagnostic; forensic analysis; nucleic acid detection; nanostructure; biochip; biofilter; drug delivery;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAS63428 standard; DNA; 20
                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                 Example 18; Page 158; 404pp; English.
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1520 АЛАЛАЛАЛАЛАЛ 1537
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                                            Similarity
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Park S, Li Z;
                                                                                          BP;
                               Conservative
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                                            Score 14.8;
Pred. No. 4.
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                                              4.4e+02
                                                               DB
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RESULT 625
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Matches 16
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(LETS/) LETSINGER R L.
(MUCI/) MUCIC R C.
(STOR/) STORHOPF J J.
(ELCH/) ELGHANIAN R.
(TATO/) TATON T A.
                                                                                                      The present sequence is an oligonucleotide used in a method for detecting a nucleic acid having at least 2 portions. The method comprises hybridising the nucleic acid with oligonucleotides, such as the present sequence, attached to a substrate and/or particle and detecting a change in colour, conductivity or optical density. The method is useful for the diagnosis and/or monitoring of diseases, in forensics, in DNA sequencing, for paternity testing, for cell line authentication and for monitoring gene therapy. Detecting nucleic acids based upon observing a colour change is cheap, fast, simple, and does not require specialised or expensive equipment. The nanoparticle oligonucleotide conjugates remain stable for at least 6 months. A single base mismatch and as little as 20 femtomoles (fM) of target can be detected using the conjugates
                                                                                                                                                                                                                                                                                                              Detecting nucleic acid, useful for e.g. diagnosis of diseases, forensics and DNA sequencing, comprises observing detectable change brought about by hybridization of nucleic acid with substrate or particle bound oligonucleotides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nucleic acid detection; nanoparticle-oligonucleotide conjugate; disease diagnosis; forensic analysis; DNA sequencing; paternity testing; cell line authentication; gene therapy; ss.
                                                                                 Sequence
                                                                                                                                                                                                                                                                                       Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2001-061976/07
                                                                                                                                                                                                                                                                                                                                                                                                             Taton
                                                                                                                                                                                                                                                                                                                                                                                                                         Mirkin CA,
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26-APR-2000; 2000US-0200161P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 03-APR-2001
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  1520
                            16; Conservative
  AAAAAAAAAAAGTAAAA 1537
                                                                                    20
                                                                                 BP;
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                                                                                                                                                                                                                                                                                                                                                                                                                          Letsinger
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                                                                                 A; 0
                                        1.1%;
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                                                                                  0 U;
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                                          4.4e+02
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RESULT 626 AAS10371 ID AAS103

AAS10371 standard; DNA;

20

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1520 AAAAAAAAAAAAGTAAAA

1537 <u>,</u>

Query Match Best Local Matches

Similarity

1.1%;

Score 14.8; DB 1; Length 20; Pred. No. 4.4e+02;

Mismatches

Indels

0

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Conservative

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AAAAAAAAAAAAAAAAAA 18

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cc may be coupled with colloidal gold particles (nanoparticles) and used to code demonstrate the method of the invention. The invention relates to consist the colloidal gold of interest, in a mixture of concleic acids, by binding it to 2 or more complimentary nucleotides which have a nanoparticle attached to their 5' ends. The nanoparticles (e.g. colloidal gold) are used to both isolate and detect (e.g. by linking the colloidal gold) are used to both isolate and detect (e.g. by linking the colloidal gold) are used to both isolate and detect (e.g. by linking the colloidal gold) are used to both isolate and detect (e.g. by linking the colloidal gold) are useful for cell cacids, natural or synthetic, and modified or unmodified. The methods may also be applied in the diagnosis of genetic, bacterial and viral diseases, in forensics, in DNA sequencing, for colloidal gold with the diagnosis of genetic paternity testing, for cell line authentication, and for monitoring gene therapy. The methods are further useful in research and analytical colloboratories in DNA sequencing, in the field to detect the presence of specific pathogens, for quick identification of an infection to assist in collor prescription, and in homes and health centres for inexpensive first-cline screening. The methods, which are based on observing colour change with the naked eye, are cheap, fast, simple, robust (reagents are collowed to a collowed the collors are change of the collor of the collors are change of the collors are collors are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               attached to nanoparticles and
the nucleic acid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Detecting a nucleic acid useful in e.g. diagnosing genetic, bacterial or viral diseases, by contacting the nucleic acid with oligonucleotides attached to nanoparticles and having sequences complementary a portion of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13-JAN-2000; 2000US-0176409P
26-JAPR-2000; 2000US-0200161P
26-JUN-2000; 2000US-00603830.
12-JAN-2001; 2001US-00760500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nanoparticle; cyclic disulphide-oligonucleotide; DNA detection; DNA isolation; genetic disease; bacterial disease; viral diseas forensic science; paternity testing; gene therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The sequence represents a cyclic disulphide linked oligonucleotide which may be coupled with colloidal gold particles (nanoparticles) and used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic.
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Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 24; Fig 44; 323pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-451868/48.
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RESULT 627
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Best Local Similarity
Matches 16; Conserv
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    AAF99099;
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27-SEP-1999; 99US-0156135P
23-AUG-2000; 2000US-0227436P.
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llarity 88.9%;
Conservative
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Pred. No. 4.4e
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Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic; immunostimulatory; tumour; viral infection; bacterial infection; fungal infection; parasitic infection; cancer; asthma;
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                                                                                                                   Immunostimulatory
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27-SEP-1999; 99US-0156135P
23-AUG-2000; 2000US-0227436P
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99US-0156135P.
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27-SEP-1999; 99US-0156135P.
23-AUG-2000; 2000US-0227436P.
                   31-DEC-1998;
                                                 27-MAR-2001.
                                                                              US6207454-B1
                                                                                                                                                                                       Universal stem cell factor (SCF) related oligonucleotide SEQ ID NO:32.
                                                                                                                                                                                                                     21-AUG-2001
                                                                                                                                                                                                                                                                                  AAH41331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
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                                                                                                                                          cell factor; SCF; stem cell factor receptor; blood cell disorder; therapy; PCR primer; mutagenesis; probe; ss.
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                                                                                                                                         therapy;
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16; Conserv
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                                                                                                                                                                                                                                                                                  standard; DNA;
                                                                                                                                                                                                                                                                                                                                                             AAAAAAAAAAAAAAAAA 18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     disease; allergy; immune deficiency; phosphorothioate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000WO-US026383
                                                                                                                                                                                                                     (first entry)
                    98US-00224681.
                                                                                                                                                                                                                                                                                                                                                                                                                                    1.1%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 14.8;
Pred. No. 4.
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Matches
                                                                                    Query Match
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11-JUN-1990;
24-AUG-1990;
01-OCT-1990;
25-NOV-1992;
21-DEC-1993;
24-MAY-1995;
                                                                                                                                                         The present invention describes a method for enhancing (B) the efficiency of transfer of a polynucleotide (I) into a target mammalian cell (II) in vitro, comprising exposing (II) that expresses a stem cell factor (SCF) receptor to a biologically active SCF, its analogue or fragment, which induces cell proliferation, and introducing (I) to (II) in vitro. Exposure of SCF to (II) results in increased uptake of (I) into the cell. The method is useful for enhancing the efficiency of the transfer of a polynucleotide into a target mammalian cell in vitro. The method is useful in gene therapy techniques. AAH41301 to AAH41364 and AAB98351 to AAB98390 represent sequences used in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                            Enhancing efficiency of transfer of polynucleotide into a target mammalian cell in vitro, involves exposing cell that expresses a stem cell factor receptor to stem cell factor, and introducing polynucleotide into cell in vitro.
                                                                                                                  Sequence 20 BP; 0 A; 0 C; 2 G; 18 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                             Example 3; Fig 12C; 210pp; English.
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                          1520 АЛАЛАЛАЛАЛАЛ 1537
                                                          16;
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18
                                                                      Similarity
AAAAAAAAAAAAAAA 1
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                                                          Conservative
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90US-00537198.
90US-00573616.
90US-00589701.
92US-00982255.
93US-00172329.
95US-00449653.
98US-00005893.
                                                                      1.1%;
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                                                                     Score 14.8; DB 1;
bred. No. 4.4e+02;
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                                                                                       DB 1;
                                                                                       Length
                                                          Indels
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ARESULT 631
AAH41333/C
ID AAH413
AC 16-OCT-1989; 11-JUN-1990; 24-AUG-1990; 01-OCT-1990; 25-NOV-1992; 21-DEC-1993; 24-MAY-1995; Synthetic 31-DEC-1998; 27-MAR-2001 Universal stem cell factor (SCF) related oligonucleotide SEQ ID NO:34. 21-AUG-2001 AAH41333; AAH41333 US6207454-BI cell factor; therapy; PCR standard; (first entry) 90US-92US-93US-95US-90US-00537198. 90US-00573616. 89US-00422383 98US-00224681 SCF; stem cell factor receptor; blood cell disorder; primer; mutagenesis; probe; ss. DNA; S-00982255. S-00172329. S-00449653. 20 ВP

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RESULT 632
AAH46465/c
ID AAH464
XX AAH464
AC AAH464
XX Oligon
XX Phosph
XX I S-JUN
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XX Cole D
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention describes a method for enhancing (E) the efficiency of transfer of a polynucleotide (I) into a target mammalian cell (II) in vitro, comprising exposing (II) that expresses a stem cell factor (SCF) receptor to a biologically active SCF, its analogue or fragment, which induces cell proliferation, and introducing (I) to (II) in vitro. Exposure of SCF to (II) results in increased uptake of (I) into the cell. The method is useful for enhancing the efficiency of the transfer of a polynucleotide into a target mammalian cell in vitro. The method is useful in gene therapy techniques. ANH41301 to ANH41164 and ANB98351 to apply the control of the cell in vitro and the control of the cell in vitro.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Enhancing efficiency of transfer of polynucleotide into a target mammalian cell in vitro, involves exposing cell that expresses a stem cell factor receptor to stem cell factor, and introducing polynucleotide into cell in vitro.
 Cole DL,
                                                                                                                                          US6242591-B1
                                                                                                                                                                                                             modified_base
                                                                                                                                                                                                                                                                                                             Synthetic
                                                                                                                                                                                                                                                                                                                                                                   Oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAH46465 standard; DNA; 20
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                                                                                                             05-JUN-2001
                                                                                                                                                                                                                                                                   modified_base
                                                                                                                                                                                                                                                                                                                                       Phosphorothioate; anti-viral therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 3; Fig 12C; 210pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12-JAN-1998;
                                                       15-OCT-1997;
                                                                                   11-JAN-2000;
                             (ISIS-) ISIS PHARM INC.
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  Ravikumar VT,
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                                                                                   2000US-00481486.
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                                                        97US-00950779
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                                                                                                                                                                                                                          note= "All bases are phosphorothioate"
                                                                                                                                                                                                                                          base=
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Pred. No. 4.4e+02;
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                                                                                                                                                                      2'-0-methyl
                                                                                                                                                                                                                                                                                                                                       stereochemical pathway;
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RESULT 633
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to a method for preparing phosphorothioate oligonucleotides having at least one nucleoside with a 2' modification. The method comprises phosphitylating the 5'-hydroxyl of a nucleic acid group having at least one nucleoside with a 2' modification in an actionitrile. The present sequence was used to illustrate the method of the present invention. The method is useful for synthesising sulphurised 2' substituted phosphorothioate oligonucleotides, which may be used in molecular biological research, in applications such as anti-viral therapy, and for determining the stereochemical pathways of certain enzymes which recognise nucleic acids
The specification describes a method for identifying a nucleic acid in a pool of interest. The method comprises pooling individually identifiable nucleic acids into at least two pools of one nucleic acid each; expressing nucleic acid pools to obtain protein expression product pools; assaying protein expression product pools for products having interaction with target molecule; selecting nucleic acid pools corresponding to identified protein expression product pools; and identifying individual
                                                                                                                                                              Screening nucleic acids (NA) in pool of interest comprises pooling, expressing NA to form expression product pool and identifying NA in NA pool corresponding to expression product pool having interaction with target moiety.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              useful in biological research, comprises phosphitylating the of a nucleic acid having a nucleoside with a 2' modification.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nucleotide sequence
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                                                                                                                               Disclosure; Col
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                                                                                                                                                                                                                                                                                                                                              03-DEC-1999;
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                                                                                                                                                                                                                                                                                                              CALIFORNIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            identification; DNA library
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                                                                                                                              22; 19pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           of a cDNA sequence.
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research, comprises phosphitylating the 5'-hydrox
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Pred. No. 4.4e+02;
0; Mismatches 2
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The present sequence was used to demonstrate the ability of deoxynucleic CS --Methythiourea (DNmt) compounds to form triplexes with DNA oligomers. An content of the oligomers resulted in a large decrease in binding. This experiment was performed as an example of a method for preparing oligonucleotides comprising a backbone of alkyl or alkoxy thiourea linkages. The method is useful for preparing oligonucleotides for use in antisense or antigene therapy, to inhibit production of proteins associated with genetic diseases, cardiovascular, inflammatory and neurocellular diseases, and for antiviral therapy, e.g. to treat human immunodeficiency virus, human-cytomegalovirus, influenza and herpes infections. The compounds are also useful as diagnostic reagents to detect the presence or absence of the target DNA or RNA sequences to which they specifically bind and by antagonising the normal biological activity of a target protein, they can be used in the manipulation of tissue e.g. tissue edifferentiation, footh in vivo and in ex vivo tissue
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Best Local S
Matches 16
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11-DEC-1998;
02-JUL-1999;
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                                                                                                                                                                                                                                                                                                                                          Preparing novel deoxynucleic alkyl thiourea oligonucleotide for use antisense therapy, by synthesizing oligonucleotides comprising backl of alkyl or alkoxy thiourea linkages in solution or on solid phase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Deoxynucleic S-Methythiourea; DNmt; antisense therapy; cardiovascular disease; inflammatory disease; neurocel antiviral therapy; human immunodeficiency virus; human influenza; herpes; infection; ss.
                                                                                                                                                                                                                                                                                                         Example 7;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (REGC )
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e.g.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAAAAAAAAAAAAAAA 18
                                                                                                                                                                                                                                                                                                       Fig 16; 48pp;
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98US-0111800P.
99US-00347443.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    neurocellular disease;
us; human-cytomegalovirus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
                                                                                                                                                                                                                                                                                                                                                            backbone
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method provides an efficient

rapid solid-phase method

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RESULT 635
AASO4113/c
ID AASO41
XX AASO41
XX AASO41
XX DAGG
DT 29-AUG
DT 29-AUG
XX Human;
XW Human;
XW D1ood
XW PCR px
XX US6207
XX US6207
XX 16-OC]
PR 11-JUI
PF 07-JUI
XX 27-MAF
XX (ZSEB)
PA (BOSS,
PA (WART,
YA (ZSEB)
PA (BOSS,
PA (WART,
YA (ZSEB)
PA (BOSS,
PA (WART,
YA (ZSEB)
PA (BOSS,
PA (WART,
XX NOVEL)
PT disea
XX WPI;
YX NOVEL
PT disea
XX The p
CC oligo
CC The p
CC oligo
CC foryel
CC forge
CC Gree
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The present sequence for universal PCR primer 220-11 is 1 of 8 universal CC oligonucleotides (AASO4110-AASO4117) used in the isolation of the human CC SCF (stem cell factor) cDNA sequence. The present invention relates to convel stem cell factors (AAUO2453-AAUO2458, AAUO2460, AAUO2461) and the CC including early haematopoietic progenitor cells. The invention also cd describes SCF peptides (AAUO2462-AAUO2481) and the oligonucleotides called in the isolation of human and rat SCF sequences. CC (AASO4081-AASO4117) used in the isolation of human and rat SCF sequences. CC The polynucleotide encoding SCF is useful for producing SCF and useful in CC gene therapy. It is useful for treating disorders involving blood cells such as myelotibrosis, metastatic carcinoma, acute leukaemia, multiple CC myeloma, Hodgkin's disease, lymphoma, Gaucher's disease, anaemia, CC congestive splenomegaly, Kala azar, sarcoidosis, military tuberculosis, CC disseminated fungus disease, Fulminating septicemia, malaria, vitamin B12 and folic acid deficiency, pyridoxine deficiency, and hypopigmentation CC disorders such as piebaldism and vitiligo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ន្តដ្ឋន
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11-JUN-1990;
24-AUG-1990;
01-OCT-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; stem cell factor; SCF; early haematopoietic progenitor cell; blood disorder; leukaemia; Hodgkin's disease; lymphoma; splenomegalanaemia; Kala azar; septicemia; malaria; hypopigmentation disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel nucleic acids encoding stem cell factor useful for treating disorders involving blood cells, e.g. leukemia, splenomegaly, Hodgkin's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAS04113 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 3; Fig 12C; 209pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        disorders involving
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2001-298941/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (BOSS/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US6207417-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAS04113;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              for the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16-OCT-1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          27-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (MART/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ZSEB/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SCF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ξ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BOSSELMAN R
SUGGS S V.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 AAAAAAAAAAAAAAAAAAAA 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              synthesis of thiourea and S-methylthiourea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MARTIN F H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Kala azar,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bosselman
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90US-00537198.
90US-00573616.
90US-00589701.
93US-00172329.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; 0 C; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 anemia and septicemia.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RA,
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Pred. No. 4.4e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SV,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Martin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          splenomegaly;
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RESULT 636
AASO4111/c
ID AASO41
XX BLOOD
XX Human;
XX Human;
XX Human;
XX US6207
XX US6207
XX US6207
XX US6207
XX 16-OCT
PR 11-JUN
PR 11-JUN
PR 21-DEC
XX (ZSEBA
PT 01-OCT
PR 21-OCT
PR 21
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                    The present sequence for universal PCR primer 220-3 is 1 of 8 universal CC oligonucleotides (AASO4110-AASO4117) used in the isolation of the human CC SCF (stem cell factor) CDNA sequence. The present invention relates to novel stem cell factors (AAU02453-AAU02458, AAU02461) and the CC including early haematopoietic progenitor cells. The invention also CC including early haematopoietic progenitor cells. The invention also CC (AASO4081-AASO4117) used in the isolation of human and rat SCF sequences. CC (AASO4081-AASO4117) used in the isolation of human and rat SCF sequences. CC (CASO4081-AASO4117) used in the isolation of human and rat SCF sequences. CC (CASO4081-AASO4117) used in the isolation of human and rat SCF sequences. CC conjunctation section for producing SCF and useful in CC gene therapy. It is useful for treating disorders involving blood cells such as myelotibrosis, metastatic carcinoma, acute leukaemia, multiple CC conjestive splenomegaly, Kala azar, sarcoidosis, military tuberculosis, CC conjestive splenomegaly, Kala azar, sarcoidosis, military tuberculosis, CC disseminated fungus disease, Fulminating septicemia, malaria, vitamin B12 and folic acid deficiency, pyridoxine deficiency, and hypopigmentation CC disorders such as piebaldism and vitiligo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
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Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-OCT-1989;
11-JUN-1990;
24-AUG-1990;
01-OCT-1990;
21-DEC-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel nucleic acids encoding stem cell factor useful for treating disorders involving blood cells, e.g. leukemia, splenomegaly, Hodgkin's disease, Kala azar, anemia and septicemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (ZSEB/)
(BOSS/)
(SUGG/)
(MART/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; stem cell factor; SCF; early haematopoietic progenitor cell; blood disorder; leukaemia; Hodgkin's disease; lymphomä; splenomegaly; anaemia; Kala azar; septicemia; malaria; hypopigmentation disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US6207417-BI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human SCF (stem cell factor) cDNA universal PCR primer 220-3.
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nes 16; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1520 АДАДАДАДАДАДСТАДАД 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ) ZSEBO K M.
) BOSSELMAN R
) SUGGS S V.
) MARTIN F H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ARARARARARARARA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Fig 12C; 209pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bosselman
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ilarity 88.9%;
Conservative
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90US-00589701.
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  Human SCF (stem cell factor) cDNA universal PCR primer 220-3.
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90US-00573616.
90US-00589701.
92US-00982255.
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                                                                                                                                                                                                                                                                                                                                                                                                                          Score 14.8; DB 1
Pred. No. 4.4e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Martin
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Human; stem cell factor; SCF; early haematopoietic progenitor cell; blood disorder; leukaemia; Hodgkin's disease; lymphoma; splenomegaly;

SCF (stem cell factor) cDNA universal PCR primer 220-11

07-AUG-2001

(first entry)

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RESULT 640
AAH23891/c
ID AAH238
XX
AC AAH238
XX
DT 07-AUG
XX
DE Human
XX
XW Human;
XW blood
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
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Best Local
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24-AUG-1990;
01-OCT-1990;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20 BP; 0 A; 0 C; 2 G; 18 T; 0 U;
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                                                                                                                                                                                                                                 AAH23891
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                                                                                                                                                                                                                                   standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                  AAAAAAAAAAAAAAAA 1
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90US-00537198.
90US-00573616.
90US-00589701.
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Pred. No. 4.4e+02;
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on disorder;
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RESULT 641
AAS04214/c
ID AAS042
XX
AC AAS042
XX
DT 29-AUG
XX
Human
XX
Human;
KW Human;
KW Human;
KW Blood
XW anaemi
KW PCR px
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present sequence for universal PCR primer 220-11 is 1 of 8 universal Coligonucleotides (AAH23888-AAH23895) used in the isolation of the human SCF (stem cell factor) cDNA sequence. The present invention relates to novel stem cell factors (AAB73561-AAB73568, AAB73571-AAB73576) and the Collection of the modern cells convel stem cell factors (AAB73561-AAB73568, AAB73571-AAB73576) and the Collection cells concluding early haematopoietic progenitor cells. The invention also concernibles SCF peptides (AAB73578-AAB73597) and the oligonucleotides CC (AAH23859-AAH23887) used in the isolation of human and rat SCF sequences. The polynucleotide encoding SCF is useful for producing SCF and useful in CC gene therapy. It is useful for treating disorders involving blood cells such as myelotibrosis, metastatic carcinoma, acute leukaemia, multiple CC myeloma, Hodgkin's disease, lymphoma, Gaucher's disease, anaemia, CC congestive splenomegaly, Kala azar, sarcoidosis, military tuberculosis, CC disseminated fungus disease, Fulminating septicaemia, malaria, vitamin CC sla and folic acid deficiency, pyridoxine deficiency, and vitiligo
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Best Local S
Matches 16
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11-JUN-1990;
24-AUG-1990;
01-OCT-1990;
10-APR-1991;
                                Human; stem cell factor; SCF; early haematopoietic progenitor cell; blood disorder; leukaemia; Hodgkin's disease; lymphoma; splenomegal anaemia; Kala azar; septicemia; malaria; hypopigmentation disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New stem cell factor polypeptides and their analogs which stimulate growth of early hematopoietic progenitors, useful for treating aplastic anemia, carcinoma, multiple myeloma, vitiligo, kala azar, Hodgkin's
                                                                                                   Human SCF (stem cell factor) cDNA universal PCR primer 220-11
                                                                                                                                       29-AUG-2001
                                                                                                                                                                                                           AAS04214 standard; DNA;
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                 primer;
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                                                                                                                                                                                                                                                                                                                                                              ch 1.1%;
1 Similarity 88.9%;
16; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 0 A;
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90US-00589701.
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90US-00537198.
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Pred. No. 4.4e+02;
0; Mismatches 2;
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                                                   splenomegaly;
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17-APR-2001

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Matches
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and the polynucleotides encoding them. SCF stimulate primitive progenitor
cells including early haematopoietic progenitor cells. The invention also
describes SCF peptides (AAU02777-AAU02794) and the oligonucleotides
(AAS04182-AAS04210) used in the isolation of human and rat SCF sequences.
The polynucleotide encoding SCF is useful for producing SCF and useful in
gene therapy. It is useful for treating disorders involving blood cells
such as myelofibrosis, metastatic carcinoma, acute leukaemia, multiple
myeloma, Hodgkin's disease, lymphoma, Gaucher's disease, anaemia,
congestive splenomegaly, Kala azar, sarcoidosis, military tuberculosis,
disseminated fungus disease, Pulminating septicemia, malaria, vitamin B12
and folic acid deficiency, pyridoxine deficiency, and hypopigmentation
disorders such as piebaldism and vitiligo
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11-JUN-1990;
24-AUG-1990;
01-OCT-1990;
                                                                                                                          Human; stem cell factor; SCF; early haematopoietic progenitor cell; blood disorder; leukaemia; Hodgkin's disease; lymphoma; splenomegal anaemia; Kala azar; septicemia; malaria; hypopigmentation disorder;
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US6218148-B1
                                                                                                                                                                                                                                       Human SCF
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                                                                                                                                                                                                                                                                                                                                            AAS04212;
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                                                                                                    primer; ss.
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                                                                                                                                                                                                                                     factor) cDNA universal PCR primer 220-3.
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                                                                                                                             pase; lymphoma; splenomegaly;
hypopigmentation disorder;
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RESULT 643
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Matches 16
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                                                                                                                                                                                                                                                                                                                                                                   Human; glutathione S-transferase pi; GSTP1; CpG island; diagnosis; hepatic cell proliferative disorder; liver cancer; anticancer; tumourigenesis; detection; PCR primer; ss.
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01-OCT-1990;
                                                               13-OCT-1999;
                                                                                                                           12-OCT-2000; 2000WO-US028427
                                                                                                                                                                                                                                                       WO200126536-A2
                                                                                                                                                                                                                                                                                                             Homo sapiens
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11-JUN-1990;
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      (UYJO ) UNIV JOHNS HOPKINS SCHOOL MEDICINE
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RESULT 644
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XX 16-OCT
PR 11-JUN
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XX 16-OCT
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Matches 16
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11-JUN-1990;
24-AUG-1990;
01-OCT-1990;
10-APR-1991;
25-NOV-1992;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; stem cell factor; SCF; haematopoietic progenitor cell; blood disorder; Hodgkin's disease; vitamin B12; folic acid deficiency; hypopigmentation disorder; viral disorder; AIDS; PCR primer; ss.
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                                                                                                         (ZSEB/)
(BOSS/)
(SUGG/)
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                                                                                   ZSEBO K M.
BOSSELMAN R J
SUGGS S V.
MARTIN F H.
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                                 Bosselman RA,
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Pred. No. 4.4e+02
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; stem cell factor; SCF; haematopoietic progenitor cell; blood disorder; Hodgkin's disease; vitamin B12; folic acid deficiency; hypopigmentation disorder; viral disorder; AIDS; PCR primer; ss.
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11-JUN-1990;
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                                                      WPI; 2001-407312/43.
                                                                                                                                                                                   (ZSEB/)
(BOSS/)
(SUGG/)
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01-OCT-1990;
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                                                                                                                                                                                                                                                                                                                    10-APR-1991;
25-NOV-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24-MAY-1995;
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                                                                                                                                                                                   ESEBO K M.
BOSSELMAN F
SUGGS S V.
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                                                                                                          Bosselman
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90US-00537198.
90US-00573616.
90US-00589701.
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93US-
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3-00982255.
3-00172329.
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                                                                                                          RA,
                                                                                                       Suggs
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Pred. No. 4
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Increasing the number of early hematopoietic progenitor cells in

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          Peroxisome proliferator-activated receptors (PPARS) are members of the nuclear hormone receptor subfamily of transcription factors. The prese invention relates to antisense oligonucleotides, targeted to a nucleit acid molecule encoding human PPARgamma, which specifically hybridises with and inhibits the expression of human PPARgamma. The present seque
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cytostatic; antiinflammatory; antisense oligonucleotide; PPARgamma; peroxisome proliferator-activated receptor; antienscription factor; nuclear hormone receptor; human; infection; inflammation; tumour; phosphorothioate; 2-methoxyethyl wing; ss.
                                                                                                                                               Novel antisense compounds capable of modulating expression of peroxisome proliferator-activated receptor gamma useful for diagnosis, prophylaxis and treatment of diseases associated with expression of the receptor.
                                                                                                                                                                                                                                                                                                                    18-JAN-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human PPARgamma antisense oligonucleotide ISIS# 106035.
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                                                                                                                 Example
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                                                                                                                                                                                                                                                                                                                      2000US-00484345
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                                                                                                              43-44; 40pp; English.
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Pred. No. 4
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Best Local
                                           The invention relates to inhibiting angiogenesis in a subject, comprising administering at least one antiangiogenic nucleic acid molecule. Also included is a kit comprising a first container housing the antiangiogenic nucleic acids, and instructions for administering them to a subject having a condition characterised by unwanted angiogenesis. The method is useful for inhibiting angiogenesis associated with solid tumour growth, tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis, diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrolental fibroplasia, rubeousla, Osler-Webber Syndrome, myocardial angiogenesis, plaque neovascularisation, telangiectasia, haemophiliac joints, angiofibroma, wound granulation, intestinal adhesions, atherosclerosis, scleroderma and hypertrophic scare, The present sequence is an antiangiogenic nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis; diabetic retinopathy; retinopathy of prematurity; macular degeneration; corneal graft rejection; neovascular glaucoma; retrolental fibroplasia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      present invention can be used in the diagnosis and treatment of diseases associated with the expression of PPARgamma, e.g. to prevent or delay infection, inflammation or tumour formation. Note: the present sequence may have a phosphorothicate backbone and 2'-O-(2-methoxyethyl) (2-MOE)
                                                                                                                                                                                                                                                                            Claim
                                                                                                                                                                                                                                                                                                          Inhibiting angiogenesis in a subject, involves administering at least antiangiogenic nucleic acid molecule to the subject.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Angiogenesis inhibitory oligonucleotide #226.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  13-DEC-2002
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Best Local Sim
Matches 16;
                                                                                 The invention relates to inhibiting angiogenesis in a subject, comprising administering at least one antiangiogenic nucleic acid molecule. Also included is a kit comprising a first container housing the antiangiogenic nucleic acids, and instructions for administering them to a subject having a condition characterised by unwanted angiogenesis. The method is useful for inhibiting angiogenesis associated with solid tumour growth, tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis, diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrolental fibroplasia, rubeossis, Osler-Webber Syndrome, myocardial angiogenesis, plaque neovascularisation, telangiectasia, haemophiliac joints, angiofibroma, wound granulation, intestinal adhesions, atherosclerosis, scleroderma and hypertrophic scars. The present sequence is an antiangiogenic nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             plaque neovascularisation; telangiectasia; haemophiliac angiofibroma; wound granulation; intestinal adhesion; at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis; diabetic retinopathy; retinopathy of prematurity; macular degeneration; corneal graft rejection; neovascular glaucoma; retrolental fibroplasia; rubeosis; Osler-Webber Syndrome; myocardial anglogenesis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic.
      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                antiangiogenic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Inhibiting angiogenesis in a subject, involves administering at least one
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14-DEC-2000; 2000US-0255534P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13-DEC-2002
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Pred. No. 4.
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         U; 0 Other;
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RESULT 649
ABS78076
ID ABS780
XX ABS780
XX ABS780
XX ABS780
XX Angiog
XW Angiog
XW Angiog
XW Cornea
XW Cubeon
XW Cornea
XW Cubeon
XW Cornea
XX WF1; 2
XX Inhibi
AT Ancinci
CC Admini
CC Incluc
CC Cornea
CC Useful
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CC Wound
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XX Squer
ABN84731/
ID ABN8
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                                                      RESULT 650
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                                                                                                                                                                                      Matches
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                                                                                                                                                                                                                                                                                                             The invention relates to inhibiting angiogenesis in a subject, comprising administering at least one antiangiogenic nucleic acid molecule. Also included is a kit comprising a first container housing the antiangiogenic nucleic acids, and instructions for administering them to a subject having a condition characterised by unwanted angiogenesis. The method is useful for inhibiting angiogenesis associated with solid tumour growth, tumour metastasis, precancerous lesion, rheumatoid arthrittis, psoriasis, diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrolental fibroplasia, rubeosis, Oster-Webber Syndrome, myocardial angiogenesis, plaque neovascularisation, telangiectasia, haemophiliac joints, angiotibroma, wound granulation, intestinal adhesions, atherosclerosis, scleroderma and hypertrophic scare. The present sequence is an antiangiogenic nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Angiogeneeis inhibitor; as; angiogeneeis; solid tumour growth; tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis; diabetic retinopathy; retinopathy of prematurity; macular degeneration; corneal graft rejection; neovascular glaucoma; retrolental fibroplasia;
                   ABN84731
                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 2; Page 29; 276pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Inhibiting angiogenesis in a subject, antiangiogenic nucleic acid molecule t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2002-566690/60
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rubeosis; Osler-Webber Syndrome; myocardial angiogenesis; plaque neovascularisation; telangiectasia; haemophiliac joint; angiofibroma; wound granulation; intestinal adhesion; atherosclerosis; scleroderma; hypertrophic scar.
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                                                                                                                                                                                     l Similarity
16; Conserv
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                 standard; DNA;
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                                                                                                              AAAAAAAAAAAAAAAAA 18
                                                                                                                                                                                                                                                              BP;
                                                                                                                                                                                                                                                                                                   invention
                                                                                                                                                                                   1.1%;
llarity 88.9%;
Conservative
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                                                                                                                                                                                                                                                              A; 0 C;
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                                                                                                                                                                                     Score 14.8; DB 1; Length 20; Pred. No. 4.4e+02; O; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           involves administering at least to the subject.
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RESULT 651
ABL39402/c
EXGXEXE
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                                                                                                                                                                                                                                                                                                                                                                                            The present sequence is an oligonucleotide that binds specifically to verotoxin type 2 (VT2) RNA. The oligonucleotide is used in a claimed process of detecting VT2 RNA, in which: a specific sequence of VT2 RNA in a claimed process of detecting VT2 RNA, in which: a specific sequence of VT2 RNA in a claimed process of detecting VT2 RNA, in which: a specific sequence of VT2 RNA in a cc sample is used as a template for cDNA synthesis using an RNA-dependent CC process. The RNA of the formed RNA/DNA hybrid is digested with CC ribonuclease H; the resulting single-stranded DNA is used as a template CC epable of transcribing RNA comprising the specific sequence or a sequence complementary to it employing a DNA-dependent DNA polymerase acc sequence complementary to it employing a DNA-dependent DNA polymerase which produces an RNA transcription product in the presence of an RNA collegence of the resulting strangeription product is then used as a template collegence of collegence and the RNA transcription product is then used as a template collegence of collegence of the RNA-dependent DNA polymerase, the collegence of a present sequence, and a second oligonucleotide (see ABN84742-46), where celeither the first or second oligonucleotide (see ABN84742-46), where celeither the first or second oligonucleotide (see ABN84742-46), where celeither the first or second oligonucleotide can be used as a gene celebration of the process is used in detection of VT in clinical examinations. The oligonucleotide can be used as a gene celebration of the collegence of the RNA polymerase process is used in detection of VT in the process is used in detection of VT in clinical examinations. The oligonucleotide can be used as a gene celebration of the collegence of the RNA polymerase process is used in detection of VT in the process is used in detection of VT in the process is used in detection of VT in the process is used in detection of VT in the process is used in detection of VT in the process is used in detection of VT in the process is used
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Best Local 9
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                                        16-APR-2002
                                                                                 ABL39402;
                                                                                                                        ABL39402 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                            Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      An oligonucleotide for detection or amplification of VT1 and VT2 RNA for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Maruyama T, Ishiguro T,
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                                                                                                                                                                                                                                                                    831 ATCAGGCGCGTGTTGAGC
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                                                                                                                                                                                                                                                                                                                                Similarity 88.9%;
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                                                                                                                                                                                                                                                                                                                                                                                            BP; 6 A; 5 C; 5
                                                                                                                                                                                                                                                                                                             Conservative
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                                                                                                                                                                                                                                                                                                                              Score 14.8; DB 1
Pred. No. 4.4e+02
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                                                                                                                                                                                                                                                                                                                                                      DB 1;
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Immunostimulatory nucleic acid SEQ ID NO: 838

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RESULT 652
ABL38648
ID ABL386
XX ABL386
XX ABL386
XX IMMUNO
XX IMMUNO
XX IMMUNO
XX Antibo
KW Antibo
XX Antibo
XX Antibo
XX Antibo
XX Antibo
XX Antibo
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                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to methods for treating or preventing CC cancer, involving administering to a subject having or at risk of CC developing cancer immunostimulatory nucleic acids that induce expression CC creating or preventing cancer such as basal cell carcinoma, bladder CC treating or preventing cancer such as basal cell carcinoma, bladder CC cancer, bone cancer, brain and central nervous system (CNS) cancer, CC treast cancer, cervical cancer, colon and rectum cancer, connective CC tissue cancer, oesophageal cancer, eye cancer, kidney cancer, larynx CC cancer, leukaemia, liver cancer, lung cancer, Hodgkin's lymphoma, melanoma, myeloma, oral cavity cancer, ovarian C cancer, stomach cancer, prostate cancer, rhabdomyosarcoma, skin C cancer, stomach cancer, testicular cancer, rhabdomyosarcoma, skin C cancer, stomach cancer, testicular cancer, rhabdomyosarcoma, skin C cancer, stomach cancer, testicular cancer, and uterine cancer. The C present sequence is an immunostimulatory oligonucleotide described in the
                                                                                                                                                                                                                                                                                                                                                                               Query Match
   Synthetic
                                 Antibody-induced cell lysis; cancer; immunostimulatory; CD20; angiogenesis; metastasis; cytostatic; ss.
                                                                                     Immunostimulatory nucleic acid SEQ ID NO:
                                                                                                                        16-APR-2002
                                                                                                                                                          ABL38648
                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Treating or preventing cancer, such as basal cell carcinoma, comprises administering immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies to a subject having or at risk of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2002-154611/20.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22-JUN-2001; 2001WO-US020154
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Antibody-induced cell lysis; cancer; immunostimulatory; CD20; angiogenesis; metastasis; cytostatic; phosphorothioate backbone;
                                                                                                                                                                                          ABL38648 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             developing cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (IOWA ) UNIV IOWA RES FOUND.
                                                                                                                                                                                                                                                                                                                                               Local Similarity
les 16; Conserv
                                                                                                                                                                                                                                                                                                              1520
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                                                                                                                                                                                                                                                                                                              AAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                              AAAAAAAAAAAAAA 3
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                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 0 A;
                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                       (first entry)
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/mod_ba
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note= "phosphorothioate backbone"
                                                                                                                                                                                                                                                                                                                                                              1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                 0 C; 0 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            base= OTHER
                                                                                                                                                                                                                                                                                                                                               0;
                                                                                                                                                                                                                                                                                                                                              Score 14.8; DB 1;
Pred. No. 4.4e+02;
0; Mismatches 2
                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
                                                                                                                                                                                                                                                                                                                                                                              Length 20;
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RESULT 653
ABL39403/c
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            breast cancer, cervical cancer, colon and rectum cancer, connective tissue cancer, oesophageal cancer, eye cancer, kidney cancer, larynx cancer, lunkaemia, liver cancer, lung cancer, Hodgkin's lymphoma, melanoma, myeloma, oral cavity cancer, ovarian cancer, pancreatic cancer, prostate cancer, rhabdomyosarcoma, skin cancer, stomach cancer, testicular cancer, and uterine cancer. The present sequence is an immunostimulatory oligonucleotide described in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to methods for treating or preventing cancer, involving administering to a subject having or at risk of developing cancer immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies. The methods are useful for treating or preventing cancer such as basal cell carcinoma, bladder cancer, bone cancer, brain and central nervous system (CNS) cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Treating or preventing cancer, such as basal cell carcinoma, comprises administering immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies to a subject having or at risk of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Page 95; 312pp; English
                                                                   22-JUN-2001; 2001WO-US020154.
                                                                                                   27-DEC-2001.
                                                                                                                                WO200197843-A2
                                                                                                                                                            Synthetic
                                                                                                                                                                                       angiogenesis; metastasis;
                                                                                                                                                                                                                                                                                             ABL39403;
                                                                                                                                                                                                                                                                                                                        ABL39403 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 developing cancer.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Weiner G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (IOWA ) UNIV IOWA RES FOUND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22-JUN-2000; 2000US-0213346P
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             (IOWA ) UNIV IOWA RES FOUND
                                       22-JUN-2000; 2000US-0213346P
                                                                                                                                                                                                       Antibody-induced cell lysis; cancer; immunostimulatory; CD20;
                                                                                                                                                                                                                                 Immunostimulatory nucleic acid SEQ ID NO: 839
                                                                                                                                                                                                                                                                 16-APR-2002
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                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                          DNA;
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                                                                                                                                                                                         cytostatic; ss.
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Pred. No. 4.4e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
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RESULT 654
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XX ABL547
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to methods for treating or preventing cancer, involving administering to a subject having or at risk of developing cancer immunostimulatory nucleic acids that induce expressic of cell surface antigens and antibodies. The methods are useful for treating or preventing cancer such as basal cell carcinoma, bladder cancer, bone cancer, brain and central nervous system (CNS) cancer, breast cancer, cervical cancer, colon and rectum cancer, connective tissue cancer, oseophageal cancer, eye cancer, kidney cancer, larynx cancer, leukaemia, liver cancer, lung cancer, Hodgkin's lymphoma, non-Hodgkin's lymphoma, melanoma, myeloma, oral cavity cancer, ovarian cancer, stomach cancer, prostate cancer, rhabdomyosarcoma, skin cancer, stomach cancer, testicular cancer, and uterine cancer. The present sequence is an immunostimulatory oligonucleotide described in t
                             The invention relates to a method for detecting 1 base polymorphism the sequence of a chromosome or its fragment in which a sample nucle
                                                                                                                                                   WPI; 2002-275727/32
                                                                                                                                                                                                            26-JUL-2000; 2000JP-00225354
                                                                                                                                                                                                                                         26-JUL-2000; 2000JP-00225354.
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                                                                                                                                                                                                                                                                                                                                Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                         CD14 receptor
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                                                                          Example
                                                                                                                    Detecting 1
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sequence of a chromosome or its fragment in which d is reacted with a reaction liquor containing a nu ing a base adjacent to the polymorphic base at its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1520
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAAAAAAAAAAAAAAAAAA 3
                                                                          Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hartmann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            preventing cancer, such as basal cell carcinoma, comprises ng immunostimulatory nucleic acids that induce expression of antigens and antibodies to a subject having or at risk of
                                                                                                                     base polymorphism on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BP; 0 A; 0 C; 0 G; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 309;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                    (first
                                                                                                                                                                                                                                                                                                                                                                                                         PCR primer SEQ ID
                                                                                                                                                                                <u></u>
                                                                        10; 10pp; Japanese.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 14.8; DB 1;
Pred. No. 4.4e+02;
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                                                                                                                     a sequence
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                                                                                                                                                                                                                                                                                                                                                            ; CD14; receptor; primer; ss.
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   cn a sample nucleic nucleic acid primer
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Best Local (
The invention relates to a method of detecting a nucleic acid (NA) having at least 2 portions comprising: (a) providing nanoparticles (NP) with attached oligonucleotides (CN), where OGN has a sequence complementary to the sequence of NA; (b) contacting NA and NP under conditions effective to allow hybridisation of OGN with NA; and (c) observing a detectable change brought about by hybridisation of OGN with NA. The method is useful for detecting a nucleic acid, separating a selected nucleic acid from others and methods of nanofabrication. Detecting analytes such as nucleic acids and proteins are useful for the diagnosis of genetic, bacterial and viral diseases. The OGN-NP conjugates that use cyclic disulphide linkers improve the sensitivity of diagnostic assays. In particular assays using CON-NP conjugates prepared using linkers comprising a steroid residue attached to a cyclic disulphide have been
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          dideoxynucleotide corresponding to a polymorphic base having a distinguishable feature or its mixture, DNA polymerase and a composition required for its activity expression to detect the presence of taking dideoxynucleotide in the nucleic acid primer and to detect the type of the base to be specified. The method is used for detecting 1 base polymorphism on the sequence of a chromosome or its fragment. The present sequence is that of a PCR primer, useful in examples of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11-AUG-2000; 2000US-0224631P.
08-DEC-2000; 2000US-0254392P.
11-DEC-2000; 2000US-025235P.
12-JAN-2001; 2001US-00760500.
28-MAR-2001; 2001US-00820279.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Detecting nucleic acid, useful for diagnosis of genetic, vip
bacterial disease, comprises hybridizing nanoparticles with
oligonucleotides to nucleic acid and detecting change brough
                                                                                                                                                                                                                                                                                                                                                                                                         Example 18; Page 410; 412pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Letsinger RL,
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The invention relates to a method of detecting a nucleic acid (NA) having at least 2 portions comprising: (a) providing nanoparticles (NP) with attached oligonucleotides (OGN), where OGN has a sequence complementary to the sequence of NA; (b) contacting NA and NP under conditions effective to allow hybridisation of OGN with NA; and (c) observing a detectable change brought about by hybridisation of OGN with NA. The method is useful for detecting a nucleic acid, separating a selected nucleic acid from others and methods of nanofabrication. Detecting analytes such as nucleic acids and proteins are useful for the diagnosis of genetic, bacterial and viral diseases. The OGN-NP conjugates that use cyclic disulphide linkers improve the sensitivity of diagnostic assays. In particular assays using OGN-NP conjugates prepared using linkers
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08-DEC-2000; 2000US-0254392P.
11-DEC-2000; 2000US-0255235P.
12-JAN-2001; 2001US-00760500.
28-MAR-2001; 2001US-00820279.
                                                                                                                                                                                                                                                                                                                                                                                                                                        Detecting nucleic acid, useful for diagnosis of genetic, viral or bacterial disease, comprises hybridizing nanoparticles with attached oligonucleorides to nucleic acid and detecting change brought about by
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Pred. No. 4
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RESULT 657
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   anaemia; myelosuppression; nerve damage; myeloproliferative disorder; infertility; neoplasia; myelofibrosis; myelosclerosis; carcinoma; acute leukaemia; multiple myeloma; sarcoidosis; hodgkin's disease; lymphoma; Gaucher's disease; Niemann-Pick disease; Letterer-Siwe disease; refractory erythroblastic anaemia; Kala azar; Di Guglielmo syndrome; congestive splenomegaly; splenic pancytopaenia; diseaminated fungus disease; Fulminating septicaemia; piebaldism; AIDS; acquired immune deficiency syndrome; malaria; military tuberculosis; pyridoxine deficiency; vitamin B12 deficiency; folic acid deficiency; piemond Blackfan anaemia; hypopigmentation disorder; vitiligo; PCR;
                                                                                                                                                                                             Novel non-naturally-occurring stem cell factor polypeptide, useful treating leucopenia, thrombocytopenia, anemia and for enhancing engraftment of bone marrow during transplantation in a mammal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Rat; stem cell factor; SCF protein; leucopaenia; thrombocytopaenia;
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Pred. No. 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                              Martin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          220-3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4.4e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2
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The present invention relates to novel non-naturally-occurring stem (factor (SCF) polypeptides having an amino acid sequence sufficiently duplicative of that of naturally-occurring SCF to allow possession of haematopoietic biological activity of naturally occurring SCF. Sequen

Example

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Fig 12C;

217pp;

English.

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RESULT 658
AAD35466/c
ID AAD354
XX AAD354
XX AAD354
XX AAD354
XX 25-JUL
XX Rat; g
KW Rat; g
KW Rat; g
KW Hodgki
KW Lettez
KW Diamor
KW D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cc anaemia and for enhancing bone marrow recovery in treatment of radiation, cc engraftment of bone marrow during transplantation in mammals and chemical cor or chemotherapeutic induced bone marrow aplasia or myelosuppression. They cc are also useful for treating acquired immune deficiency in a human, nerve cdamage, neoplasia, infertility, myeloproliferative disorder, intestinal cc damage in a mammal. Sof sequences are useful for preparing biologically cc active polymer polypeptide adduct, for enhancing transfection of early consension of the properties of a gene into cc a mammal. They are useful for treating myelofibrosis, myelopacierosis, consequences, metastatic carcinoma, acute leukaemia, multiple myeloma, conteopetrosis, metastatic carcinoma, acute leukaemia, prick disease, conteopetrosis, metastation disease, verthroblastic anaemia, pi Guglielmo cc syndrome, congestive splenomegaly, Kala azar, sarcoidosis, primary cutterer-Siwe disease, refractory erythroblastic anaemia, primary cutuberculosis, Fulminating septicaemia, pyridoxine deficiency, vitamin B12 and folic acid deficiency, Diamond Blackfan anaemia, hypopigmentation cc disorders such as piebaldism, AlDS (acquired immune deficiency syndrome) cand vitiligo. The present sequence is a PCR primer which is used for amplifying the 5' end of rat SCF cDNA. This sequence is used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Rat; stem cell factor; SCF protein; leucopaenia; thrombocytopaenia; anaemia; myelosuppression; nerve damage; myeloproliferative disorder; infertility; neoplasia; myelofibrosis; myelosclerosis; osteopetrosis; metastatic carcinoma; acute leukaemia; multiple myeloma; sarcoidosis; Hodgkin's disease; lymphoma; Gaucher's disease; Niemann-pick disease; Letterer-Siwe disease; refractory erythroblastic anaemia; Kala azar; DI Guglielmo syndrome; congestive splenomegaly; splenic pancytopaenia; diseaminated fungus disease; Fulminating septicaemia; piebaldism; AIDS; acquired immune deficiency syndrome; malaria; military tuberculosis; pyridoxine deficiency; vitamin B12 deficiency; folic acid deficiency; plamond Blackfan anaemia; hypopigmentation disorder; vitiligo; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rat SCF 5' cDNA amplifying PCR primer, 220-11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-JUL-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                        12-JAN-1998;
                                                                                                                                                                                                                                                                                                                                           24-MAY-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1520 AAAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                       ) ZSEBO K M.
) BOSSELMAN R A.
SUGGS S V.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                 MARTIN F H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAAAAAAAAAAAAAA 1
                                                   Bosselman
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                           9508-00449653
                                                                                                                                                                                                                                                                                                                                                                                                                        98US-00005243
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                                               Sugge
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Pred. No. 4.
                                                   s۷,
                                                   Martin
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CC anaemia and for enhancing bone marrow recovery in treatment of radiation, CC engraftment of bone marrow during transplantation in mammals and chemical CC or chemotherapeutic induced bone marrow aplasia or myelosuppression. They CC are also useful for treating acquired immune deficiency in a human, nerve CC damage, neoplasia, infertility, myeloproliferative disorder, intestinal CC damage in a mammal. SCF sequences are useful for preparing biologically CC active polymer polypeptide adduct, for enhancing transfection of early CC hemanatopoietic progenitor cells with a gene, and transfer of a gene into CC amammal. They are useful for treating myelofibrosis, myelocalevosis, cc osteopetrosis, metastatic carcinoma, acute leukaemia, multiple myeloma, CC Hodgkin's disease, lymphoma, Gaucher's disease, Niemann-Pick disease, CC Letterer-Siwe disease, refractory erythroblastic anaemia, pi Guglielmo CC syndrome, congestive splenomegaly, Kala azar, sarcoidosis, primary CC splenic pancytopaenia, disseminated fungus disease, malaria, military CC splenic pancytopaenia, disseminated fungus disease, malaria, military CC and folic acid deficiency, Diamond Blackfan anaemia, hypopigmentation CC disorders such as piebaldism, AIDS (acquired immune deficiency syndrome) CC and tiligo. The present sequence is a PCR primer which is used for camplifying the 5' end of rat SCF CDNA. This sequence is used in the
                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel non-naturally-occurring stem cell factor polypeptide, useful for treating leucopenia, thrombocytopenia, anemia and for enhancing engrafiment of bone marrow during transplantation in a mammal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   factor (SCF) polypeptides having an amino acid sequence sufficiently duplicative of that of naturally-occurring SCF to allow possession of haematopoietic biological activity of naturally occurring SCF. Sequences of the invention are useful for treating leucopaenia, thrombocytopaenia,
                                                                                                                                              Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 3; Fig 12C; 217pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2002-350789/38.
     Local
     Similarity
                                                                                                                                              BP; 0 A; 1 C; 1 G; 18 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          invention
1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          relates to novel non-naturally-occurring
                                             Score 14.8;
     Pred. No. 4.4e+02
                                                  DB 1;
                                             Length
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ABS73848/c
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16-OCT-1989;
11-JUN-1990;
24-AUG-1990;
                                                                                                                                                  multiple myeloma; Hodgkin's disease; lymphoma; malaria; vitiligo; refractory erythroblastic anaemia; miliary tuberculosis; cytostatic; disseminated fungus disease; haematopoietic; tuberculostatic;
                                                                                                                                                                                      Stem cell factor; SCF; blood-forming system; blood cell disorder; haematopoietic system; metastatic carcinoma; acute leukaemia;
                                              04-OCT-1990;
                                                                      18-SEP-2002
                                                                                            EP1241258-A2
                                                                                                                  Synthetic
                                                                                                                                         antianaemic;
                                                                                                                                                                                                                         SCF universal oligonucleotide 220-3.
                                                                                                                                                                                                                                                  05-DEC-2002
                                                                                                                                                                                                                                                                                               ABS73848 standard; DNA; 20
                                                                                                                                                                                                                                                                         ABS73848;
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                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                              2002EP-00008587
                                                                                                                                         antifungal; antimalarial;
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 89US-00422383.
90US-00537198.
90US-00573616.
                                                                                                                                                                                                                                                                                                 ВP
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RESULT 660
ABS73850/c
ID ABS738
XX ABS738
XX O5-DEC
XX SCF un
XX Stem C
KW Haemat
KW refrac
KW dissem
KW antian
XX Synthe
PN EP1241
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Best Local :
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  16-OCT-1989;
11-JUN-1990;
24-AUG-1990;
28-SEP-1990;
01-OCT-1990;
04-OCT-1990;
04-OCT-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-SEP-1990;
01-OCT-1990;
04-OCT-1990;
04-OCT-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  disorders involving blood cells e.g. metastatic carcinoma, acute leukaemia, multiple myeloma, Hodgkin's disease, lymphoma, refractory erythroblastic anaemia, miliary tuberculosis, disseminated fungus disease, malaria, and vitiligo. The present sequence representing a universal oligonucleotide for SCF DNA is used in the examples of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to novel stem cell factors (SCFs), polynucleotide sequences encoding the SCFs, and methods of producing them. SCFs are involved in the blood-forming (haematopoietic) system in mammals, particularly humans. The method of the invention is useful for the production of human SCF. The stem cell factors are useful to treat the production of human SCF. The stem cell factors are useful to treat
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Stem cell factor; SCF; blood-forming system; blood cell disorder; hasmatopoietic system; metastatic carcinoma; acute leukaemia; multiple myeloma; hdogkin's disease; lymphoma; malaria; vitiligo; refractory erythroblastic anaemia; miliary tuberculosis; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Production of a human stem cell factor (SCF) polypeptide for disorders involving blood cells, such as leukemia, comprises mammalian cells comprising non-human SCF promoter DNA linked
                                                                                                                                                                                                      04-OCT-1990;
                                                                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                disseminated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-DEC-2002
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                                                                                                                                                                                                                                                        18-SEP-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (AMGE-) AMGEN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              universal oligonucleotide 220-11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1520
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAAAAAAAAAAAAAA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Fig 12C; 120pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sugga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                      2002EP-00008587
                                                                                                                                                                                                                                                                                                                                                                                                                             fungus disease; haematopoietic; tuberculostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
  89US-00422383.
90US-00537198.
90US-00573616.
90WO-US005548.
90US-00589701.
90EP-00310899.
95EP-00105391.
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90US-00589701.
90EP-00310899.
95EP-00105391.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bosselman
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 14.8;
Pred. No. 4.
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RESULT 661
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              polynucleotide sequences encoding the SCFB, and methods of producing them. SCFB are involved in the blood-forming (haematopoietic) system in mammals, particularly humans. The method of the invention is useful for the production of human SCF. The stem cell factors are useful to treat disorders involving blood cells e.g. metastatic carcinoma, acute leukaemia, multiple myeloma, Hodgkin's disease, lymphoma, refractory erythroblastic anaemia, military tuberculosis, disseminated fungus disease, malaria, and vitiligo. The present sequence representing a universal oligonucleotide for SCF DNA is used in the examples of the
                                              Synthesis of polynucleotide useful during fabrication of an array involves coupling nucleoside phosphoramidite and a solid-supported nucleoside and treating the product with an oxidation/deprotection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Production of a human stem cell factor (SCF) disorders involving blood cells, such as leuk mammalian cells comprising non-human SCF promonance.
                                                                                                                                                                                                                                                                                Synthetic
                                                                                                                                                                                                                                                                                                        Oligonucleotide synthesis; polynucleotide array; protecting group; oxidation; ss.
                                                                                                                                                                                                                                                                                                                                                Oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention relates to novel stem cell factors
                                                                                                   WPI; 2002-156732/21.
                                                                                                                           Dellinger DJ,
                                                                                                                                                                                                      27-JUL-2001; 2001EP-00118360
                                                                                                                                                                                                                               30-JAN-2002
                                                                                                                                                                                                                                                        EP1176151-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                 AAL45122;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    present invention
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                                                                                                                                                      (AGIL-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1520 ААААААААААААСТАААА 1537
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                                                                                                                                                      AGILENT TECHNOLOGIES INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
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                                                                                                                             Perbost
                                                                                                                                                                                                                                                                                                                                                synthesis method
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Pred. No. 4.4e+02;
0; Mismatches 2
                                                                                                                             Betley
                                                                                                                                                                                                                                                                                                                                                related DNA #1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SCF) polypeptide for treating leukemia, comprises culturing promoter DNA linked to DNA
                                                                                                                             Caruthers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0 Other;
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Example 1; Page 15;

36pp; English

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RESULT 662
ABL36232
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Best Local :
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The present invention relates to a method of inhibiting skin inflammation associated with a skin disorder selected from psociasis, atopic dermatitis and allergic contact dermatitis, which involves administering a composition containing delipidated and deglycolipidated Mycobacterium vaccae cells or M. vaccae culture filtrate. The skin disorder to be treated may also include alopecia areata, and skin cancers such as basal cell carcinoma, squamous cell carcinoma and melanoma. The composition acts by inhibiting the Th2 immune response. The present sequence is a probe described in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Skin disorder; psoriasis; atopic dermatitis; allergic contact dermatitis; alopecia areata; skin cancer; Mycobacterium vaccae; melanoma; cytostatic; antipsoriatic; dermatological; antiinflammatory; antiallergic;
                                                                                                                                                                                                                                                                         Example 5; Col 99-100; 116pp; English
                                                                                                                                                                                                                                                                                                                                                  Inhibiting skin inflammation associated with skin disorder e.g. psoriasis, by administering composition comprising delipidated and deglycolipidated Mycobacterium vaccae cells or Mycobacterium vaccae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2002-138361/18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23-DEC-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           08-APR-2002
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Pred. No. 4.4e+02
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                 CC two portions, involving providing nanoparticles having oligonucleotides CC attached to it, which has a sequence complementary to sequence of two CC portions of nucleic acid, contacting nucleic acid and nanoparticles, to Cd allow hybridisation of oligonucleotides with two or more portions of CC nucleic acid, and observing a detectable change brought about by CC hybridisation. (M1), nanoparticles (I), nanoparticle-oligonucleotide CC conjugates (II) and the aggregate probe are useful for detecting two or CC more nucleic acids (from a biological source) having at least two or CC portions, such as viral RNA, bacterial or fungal DNA, a gene associated CC with a disease, synthetic, or structurally-modified natural or synthetic CC RNA or DNA, or a product of a polymerase chain reaction amplification. CC (II) is useful for preparing a nanoprobe conjugate for detecting an CC (I) and (II) are useful for fabrication, and for separating a selected CC nucleic acid having two portions from other nucleic acids. (I), (II) and the aggregate probe are useful for detecting an analyte (especially CC polyvalent analyte) in a sample. This sequence represents a colyvalent analyte is demonstrate the method of the invention
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08-DEC-2000; 2000US-025418P.
11-DEC-2000; 2000US-0255235P.
11-DEC-2000; 2000US-0255236P.
12-JAN-2001; 2001US-00760500.
28-MAR-2001; 2001US-00820279.
09-APR-2001; 2001US-0282640P.
10-AUG-2001; 2001US-00927777.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 petecting nucleic acid having two portions, by providing nanoparticles having oligonucleotides attached to it, contacting nucleic acid and nanoparticles to allow hybridization, and observing detectable change.
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nanoparticle; viral RNA detection;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABS64673 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local
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Pred. No. 4.4e+02;
0; Mismatches 2
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ion; bacterial DNA detection;
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RESULT 664
ABS64688
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The invention describes a method of detecting (MI) a nucleic acid having two portions, involving providing nanoparticles having oligonucleotides attached to it, which has a sequence complementary to sequence of two portions of nucleic acid, contacting nucleic acid and nanoparticles, to contacting nucleic acid and nanoparticles, to contacting a detectable change brought about by complementary to sequence of two mucleic acid, and observing a detectable change brought about by complete (II) and the aggregate probe are useful for detecting two or conjugates (II) and the aggregate probe are useful for detecting two or conjugates (II) and the aggregate probe are useful for detecting two or continuous, such as viral RNA, bacterial or fungal DNA, a gene associated with a disease, synthetic, or structurally-modified natural or synthetic RNA or DNA, or a product of a polymerase chain reaction amplification. (II) is useful for preparing a nanoporobe conjugate for detecting an analyte, and for detecting a nucleic acid bound to an electrode surface. (I) and (II) are useful for fabrication, and for separating a selected nucleic acid having two portions from other nucleic acids. (II), (II) and the aggregate probe are useful for detecting an analyte (especially coplyvalent analyte) in a sample. This sequence represents a
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Best Local S
Matches 16
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08-DEC-2000;
11-DEC-2000;
11-DEC-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 24; Fig 44; 442pp; English
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09-APR-2001;
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Garimella V, Li
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2000US-0255235P.
2000US-0255236P.
2001US-00760500.
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2001US-00820279.
2001US-0282640P.
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Pred. No. 4.4e+02
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                         The present invention describes a non-antibody protein, comprising a commain having an immunoglobulin-like fold, derived from a reference protein having a mutated amino acid sequence, where the non-antibody protein binds with a Kd at least as tight as 10 nM to a compound that is not bound as tightly by the reference protein. The non-antibody protein is useful as scaffolds for selecting or designing a protein framework with specific and favourable properties, e.g. for binding any antigen of interest, or for destroying or inactivating antibody molecules. The non-antibody protein is also useful in all areas where antibodies are used, e.g. research, therapeutic or diagnostic fields, and for screening novel binding proteins useful in the above-mentioned fields. The present proteins have thermodynamic properties superior to those of natural cantibodies, and can be evolved rapidly in vitro. The present proteins or antibody mimics exhibit improved biophysical properties, such as carbibly under reducing conditions and solubility at high concentrations. In addition, these molecules are readily expressed and concentrations. In addition, these molecules are readily expressed and concentrations. In addition, these molecules are readily expressed and concentrations. In addition, these molecules are readily expressed and concentrations or affinity maturation techniques involving multiple cycles of selection, e.g. in vitro selection using RNA-protein fusion technology, phage display or yeast display systems. The present sequence is used in the protein superior invention.
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New non-antibody proteins having an immunoglobulin fold, useful in research, therapeutic or diagnostic fields, particularly as scaffolds for designing proteins with specific properties, e.g. for binding any antigen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Protein scaffold; antibody; binding protein; immunoglobulin; tumour necrosis factor alpha; TNF-alpha; protein framework; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Capture
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     polynucleotide used to demonstrate the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 58; 94pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Lipovsek D, Wagner RW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16-OCT-2000; 2000US-00688566
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-OCT-2001; 2001WO-US032233
                   exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2002-444238/47
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Pred. No. 4.4e+02
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                                                                                                                                                                                                                                                                                The invention relates to a method of detecting a nucleic acid having two CC portions. The method involves providing nanoparticles having colligonuclectides attached to it which has a sequence complementary to sequence of two portions of nucleic acid, contacting nucleic acid and CC nanoparticles to allow hybridisation of oligonucleotides with two or more portions of nucleic acid and observing a detectable change brought about CC by hybridisation. The method and aggregate probes are useful for CC detecting two or more nucleic acids (from a biological source) having at CC least two portions such as viral RNA, bacterial or fungal DNA, a gene CC associated with a disease, synthetic or structurally modified natural or synthetic RNA or DNA, or a product of a polymerase chain reaction CC amplification. The invention is useful for preparing a nanoprobe conjugate for detecting an analyte and for detecting a nucleic acid bound CC to an electrode surface. It is also useful for fabrication and for separating a selected nucleic acid having two portions from other nucleic acids. The present sequence is an oligo used to illustrate the method of the invention
                                                                                                                                           Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Detecting nucleic acid having two portions, by providing nanoparticles having oligonucleotides attached to it, contacting nucleic acid and nanoparticles to allow hybridization, and observing detectable change.
                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 18; Page 179; 467pp; English
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07-DEC-2001; 2001US-00008978.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Thiol-modified oligo #4 used in the nucleic acid detection method.
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ilarity 88.9%;
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                                                                                                            Score 14.8; DB 1;
Pred. No. 4.4e+02;
0; Mismatches
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RESULT 667
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                                                                                                                    Query Match
Best Local S
Matches 16
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                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New DNA sequences from potato, useful for producing plants with altered properties, e.g. tolerance of flooding, also related proteins, antibodies
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ilarity 88.9%;
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portions, comprises providing a type of nanoparticles (NP) having attached to oligonucleotides (O) ((O) on each NP has a sequence complementary to sequence of at least 2 portions of NA), contacting NA and NP to allow hybridisation of (O) on NP with 2 or more portions of NA, and observing a detectable change brought about by hybridisation of (O) on NP with NA. The nanoparticle is useful for separating a selected nucleic acid having at least 2 portions, from other nucleic acids, and for detecting nucleic acids having at least 2 portions. The method of using NP is useful for detecting any type of nucleic acids which may be used for diagnosis of disease and in sequencing of nucleic acids which may be used for diagnosis of disease and in sequencing of nucleic acids for referably, the method is useful for detecting nucleic acids for diagnosis and/or monitoring of virus, cytomegalovirus and Epstein-Barr virus, hepatitis virus, herpes virus, cytomegalovirus and Epstein-Barr virus), bacterial diseases, sexually transmitted diseases, inherited disorders, in forensics, in DNA sequencing, for cell line authentication and for monitoring gene therapy. The method is useful in research and analytical laboratories in DNA sequencing and in the field to detect the presence of specific pathogens. Detecting nucleic acids hand on the presence of specific pathogens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29-JUL-1996;
21-JUL-1997;
29-JAN-1999;
25-JUN-1999;
26-APR-2000;
26-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nanoparticle; ss; nucleic acid detection; viral disease; probe; human immunodeficiency virus infection; hepasitis virus infection; herpes virus infection; cytomegalovirus infection; forensic science; Epstein-Barr virus infection; bacterial disease; gene therapy; sexually transmitted disease; inherited disorder; DNA sequencing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Detecting nucleic acids having at least 2 portions comprises use of nanoparticles which have oligonucleotides attached to them that are complementary to portions of the nucleic acid sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to detecting a nucleic acid (NA) having
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 18; Page 44; 130pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mirkin
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                                   based on observing a colour change with the naked simple and robust, and do not require specialised ment. The present sequence is a nanoparticle (e.g. led probe used to demonstrate the method of the inv
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2000US-00603830
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99US-00344667.
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                       cc portions of nucleic acid, contacting nucleic acid and nanoparticle to combine the portions of nucleic acid and observing a detectable with two cc or more portions of nucleic acid and observing a detectable with two combines acid. The method is useful for separating a selected nucleic acid acid. The method is useful for separating a selected nucleic acid having at least two portions. From other nucleic acids and for detecting concleic acids having at least two portions. The method is useful for detecting concleic acids having at least two portions. The method is useful for concleic acids and for detecting concleic acids and in sequencing of nucleic acids. Preferably, the method is useful for detecting nucleic acids which may be used for diagnosis of concleic acids for diagnosis and/or monitoring of control in fections (human immunodeficiency virus (HIV), hepatitis virus, cytomegalovirus and Epstein-Barr virus), bacterial concesses, saxually transmitted diseases, inherited diseases, inherit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This invention describes a novel method of detecting nucleic acid having at least two portions. The method involves providing nanoparticles attached to oligonucleotides, where the oligonucleotide on each nanoparticle have a sequence complementary to a sequence of at least two portions of nucleic acid, contacting nucleic acid and nanoparticle to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Detecting nucleic acids having at least two portions involves use nanoparticles which have oligonucleotides attached to them that as complementary to portions of the nucleic acid sequence.
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   on observing
and robust as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29-JUL-1996;
21-JUL-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Page 59; 130pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              complementary to portions of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2003-182627/18.
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2000US-00603830
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21-JUL-1997;
29-JAN-1999;
25-JUN-1999;
26-APR-2000;
This invention relates to a novel method for detecting a nucleic acid having 2 portions. The method comprises providing nanoparticles having oligonucleotides attached, where the oligonucleotide on each nanoparticle has a sequence complementary to a sequence of 2 portions of nucleic acid. The nucleic acid and nanoparticle are contacted to allow hybridisation of the oligonucleotide on the nanoparticle with two or more portions of nucleic acid and observing a detectable change brought about by the hybridisation. The method of the invention is useful for separating a selected nucleic acid having 2 portions, from other nucleic acids, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  wanotechnology; 88; nucleic acid detection; nanoparticle; virus detection; human immunodeficiency virus; HIV; hepatitis; herpes; cytomegalovirus; Epstein-Barr virus; bacterial disease; DNA sequencing; sexually transmitted disease; inherited disorder; forensic;
                                                                                                                                                                                                                                                                                Detecting nucleic acids having 2 portions e.g. for detecting disease, comprises use of nanoparticles which have oligonucleotides attached them that are complementary to portions of the nucleic acid sequence.
                                                                                                                                                                                                                                       Example 18;
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99US-00344667.
2000US-0200161P.
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97WO-US012783.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1.1%;
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                                                                                                                                                                                                                                     English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ģ;
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Pred. No. 4.
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                                                                                                                                                                                                                                                                                                                                                                                                                                               RC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             oligonucleotides used to illustrate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ŧ,
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RESULT 671
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           for detecting nucleic acids having 2 portions. The method of the invention is useful for detecting any type of nucleic acids which may be used for diagnosis of disease and in sequencing of nucleic acids. Preferably, the method is useful for detecting nucleic acids for diagnosis and/or monitoring of viral diseases (human immunodeficiency virus, hepatitis virus, heppes virus, cytomegalovirus and Epstein-Barr virus), bacterial diseases, sexually transmitted diseases, inherited disorders, in forensics, in DNA sequencing, for paternity testing, for cell line authentication, for monitoring gene therapy, etc. This method involves detecting nucleic acids based on observing a colour change with the naked eye so is cheap, fast, simple and robust, and does not require specialised expensive equipment. The present sequence represents a thiol modified oligonucleotide sequence used to demonstrate the method of the
                                                                                                                                                                                                  29-JUL-1996;
21-JUL-1997;
29-JAN-1999;
25-JUN-1999;
                       nanoparticles to allow useful in forensics.
                                                                                                                         Mirkin
                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic
                                   Detecting nucleic acid having two portions, by providing nanoparticles having oligonucleotides attached to it, contacting nucleic acid and nanoparticles to allow hybridization, and observing detectable change,
                                                                                     WPI; 2003-247253/24.
                                                                                                                                                                                                                                                                28-SEP-2001;
                                                                                                                                                                                                                                                                                         07-NOV-2002.
                                                                                                                                                                                                                                                                                                                  US2002164605-A1.
                                                                                                                                                                                                                                                                                                                                                                             modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Nanotechnology
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACD27125;
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                                                                                                              Taton TA;
                                                                                                                                                 (NANO-)
                                                                                                                                                                          26-APR-2000;
26-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                           Nanotechnology;
DNA sequencing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    invention
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                                                                                                                                                  NANOSPHERE INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAAAAAAAAAAAAAAAA
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                                                                                                                         Letsinger
                                                                                                                                                                         99US-00240755.
99US-00344667.
2000US-0200161P.
2000US-00603830.
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                                                                                                                                                                                                                                                                2001US-00966312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first
                                                                                                                                                                                                                          96US-0031809P
97WO-US012783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  nucleic acid detection method oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20
                                                                                                                                                                                                                                                                                                                                                                                                                                           nucleic acid detection; paternity testing; cell
                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                           note= "OTHER= Thiol modified"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           entry)
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                                                                                                                                                                                                                                                                                                                                                        base= OTHER
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                                                                                                                         Mucic
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bred. No. 4.4e+02;
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                                                                                                                         RC,
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                                                                                                                           Storhoff
                                                                                                                                                                                                                                                                                                                                                                                                                                             nanoparticle; ss; for line authentication.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0 Other;
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                                                                                                                         Elghanian
                                                                                                                                                                                                                                                                                                                                                                                                                                                           forensic;
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Example 18;

Page 44;

130pp; English

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CC This invention relates to a novel method for detecting nucleic acid CC sequences having two portions. The method involves providing CC nanoparticles having oligonucleotides attached to them, which has a CC sequence complementary to sequence of two portions of nucleic acid, CC contracting nucleic acid and nanoparticles, to allow hybridisation of CC oligonucleotides with two or more portions of nucleic acid, and observing CC adetectable (change brought about by hybridisation. The method of the contraction and the aggregate probes are useful for detecting two or more cC invention and the aggregate probes are useful for detecting two or more cC such as viral RNA or DNA, bacterial or fungal DNA, a gene associated with CC adisease, synthetic, or structurally-modified natural or synthetic RNA CC or DNA, or a product of a polymerase chain reaction amplification. CC Nanoparticles and nanoparticle-oligonucleotide conjugates of the convention are useful for nanofabrication, and for separating a selected convention are useful for nanofabrication, and for separating a selected convention is useful in forensics, DNA sequencing, for paternity CC testing, cell line authentication, and monitoring gene therapy. CC Diagnostic assays employing the nanoparticle-oligonucleotide conjugates of the invention improve the sensitivity of the nucleic acid detection CC assay. The present sequence represents a thiol modified oligonucleotide CC detection used to demonstrate the method of the invention
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Best Local S
Matches 16
                                                                                                                                                                         29-JUL-1996;
21-JUL-1997;
29-JAN-1999;
25-JUN-1999;
26-APR-2000;
26-JUN-2000;
                                 Mirkin CA,
Taton TA;
                                                                                                                                                                                                                                                                                                                                                                                       28-SEP-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              pathogen detection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nanoparticle; ss; nucleic acid detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nanotechnology nucleic acid detection method associated #54.
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                                                                                                                      (NANO-) NANOSPHERE INC.
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16; Conserv
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                                                            Letsinger RL,
                                                                                                                                                                            99US-00344667.
2000US-0200161P.
2000US-00603830.
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97WO-US012783.
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/mod_base= OTHER
/note= "OTHER= Thiol modified"
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                                                               Mucic RC,
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Pred. No. 4.
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                                                               Storhoff JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4.4e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA sequencing;
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                                                               Elghanian
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RESULT 673
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 16
                                                                                                                      29-JUL-1996;
21-JUL-1997;
29-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Detection of nucleic acid for, e.g. research and analytical laboratories in deoxyribonucleic acid sequencing, involves contacting nucleic acid with nanoparticles having oligonucleotides.
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           Mirkin CA,
                                                                                            25-JUN-1999;
26-APR-2000;
                                                                                                                                                                                      12-OCT-2001; 2001US-00976971.
                                                                                                                                                                                                                     05-DEC-2002.
                                                                                                                                                                                                                                                    US2002182613-A1
                                                                                                                                                                                                                                                                                                                                                                                Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                             Nanoparticle; ss; nucleic acid detection; DNA sequencing
                                                                                                                                                                                                                                                                                                                                                                                                                                             Nanotechnology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACD27190;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACD27190 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                  modified_base
                                            (NANO-) NANOSPHERE INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1520 АЛАЛАЛАЛАЛАЛ 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 AAAAAAAAAAAAAAAA 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                        96US-0031809P.
97WO-US012783.
99WS-00240755.
99US-00344667.
2000US-0200161P.
2000US-00603830.
           Letsinger RL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                              nucleic acid detection method associated #54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
                                                                                                                                                                                                                                                                                    /mod_base= OTHER
/note= "OTHER= Thiol modified"
                                                                                                                                                                                                                                                                                                                   /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1.1%;
              Mucic RC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 14.8; DB 1;
Pred. No. 4.4e+02;
0; Mismatches 2
              Storhoff JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
              Elghanian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CC This invention relates to a novel method for detecting a nucleic acid by CC contacting nucleic acid with at least two types of nanoparticles having CC oligonuclectides, allowing hybridisation of the oligonuclectides on the CC nanoparticles, and observing a detectable change. The oligonuclectides on the sequence of the nucleic acid. The method of the invention may be CC used for the detection of a nucleic acid used in, e.g. research and CC analytical laboratories in DNA sequencing, in the field to detect the CC presence of specific pathogens, in the doctor's office for quick CC present, and in homes and health centres for inexpensive first-line CC cobserving a colour change with the naked eye are cheap, fast, simple, CC robust (the reagents are stable), do not require specialised or expensive equipment, and little or no instrumentation is required. The present CC demonstrate the method of detecting nucleic acids based on the control of the control of the present control of the require specialised or expensive equipment, and little or no instrumentation is required. The present CC demonstrate the method of health centres.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local S
Matches 16
                                         29-JUL-1996;
21-JUL-1997;
29-JAN-1999;
25-JUN-1999;
26-APR-2000;
26-JUN-2000;
                                                                                                                                                         15-OCT-2001; 2001US-00981344.
                                                                                                                                                                                                                         US2003044805-A1.
                                                                                                                                                                                                                                                                                                      modified_base
                                                                                                                                                                                                                                                                                                                                                                                  Nanotechnology;
                                                                                                                                                                                                                                                                                                                                                                                                                 Nanotechnology nucleic acid detection method oligonucleotide #54.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACD27060
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACD27060 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 18; Page 43; 107pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Detection of nucleic acid for, e.g. research and analytical laboratories in deoxyribonucleic acid sequencing, involves contacting nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               demonstrate
               (NANO-) NANOSPHERE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1520 ААЛАЛАЛАЛАЛАГТАЛА 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nanoparticles having oligonucleotides.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               the
                                           99US-00240755.
99US-00344667.
2000US-0200161P.
2000US-00603830.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                         96US-0031809P.
97WO-US012783.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               method of the invention
                                                                                                                                                                                                                                                                                                                                                                                      nucleic
                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                       /mod_base= OTHER
/note= "OTHER= Thiol modified"
                                                                                                                                                                                                                                                                                        *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1.1%;
                                                                                                                                                                                                                                                                                                                                                                                      acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 14.8; DB 1;
Pred. No. 4.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                      detection; nanofabrication; nanoprobe;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                      88
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                                       S
                                                                                                                                                                                 CC to them, which have a sequence complementary to a sequence of two portions of nucleic acid, contacting the nucleic acid and nanoparticles of the portions of nucleic acid, and observing a detectable change brought about by of the nucleic acid, and observing a detectable change brought about by continuous and the distances between these are chosen so that when the canadity and observing a detectable change brought about by comparticle-oligonucleotide conjugate binds the target sequence a contectable change occurs. The method of the invention is useful for the least two portions, such as viral RNA, bacterial or fungal DNA, a gene cassociated with a disease, synthetic, or structurally-modified natural cor synthetic RNA or DNA, or a product of a polymerase chain reaction can are useful for preparing a nanoprobe conjugate for detecting an analyte, and for detecting a nucleic acid bound to an electrode surface.

CC Nanoparticles and nanoparticle conjugates of the invention are useful for portions from other nucleic acids. Diagnostic assays employing consortions from other nucleic acids. Diagnostic assays employing consortions from other nucleic acids. Diagnostic assays employing conjugates are present in only small amounts in a sample. The invention also conjugates are stable with tailored hybridisation abilities. The present conjugates represents a thiol modified oligonucleotide sequence used to demonstrate the method of the invention.
                                                                                        Matches
                                                                                                             Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Detection of nucleic acid having -2 portions used to prepare biomaterials and in nanofabrication methods, comprises providing nanoparticles, contacting nucleic acid and nanoparticles, and observing change.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This invention relates to a novel method for detecting nucleic acids. The method comprises providing nanoparticles with oligonucleotides attached
                                                                                                                                                                               Sequence 20 BP; 20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 18; Page 44; 130pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mirkin CA,
                                                                                                                                                                                                                           demonstrate the method of the invention
                                          1520 AAAAAAAAAAAGTAAAA 1537
                                                                                        16;
  1 AAAAAAAAAAAAAAAA 18
                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Letsinger RL,
                                                                                        Conservative
                                                                                                           1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mucic RC,
                                                                                      0;
                                                                                        Score 14.8; DB 1; Length Pred. No. 4.4e+02; o; Mismatches 2; Indels
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                                                                                           Indels
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                                                                                           Gaps
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RESULT 675
                                                                                     Synthetic
                                                                                                                      Nanotechnology nucleic acid detection method oligonucleotide #54.
                                                                                                                                                         ACH00064;
                                                                                                                                                                           ACH00064 standard; DNA; 20 BP
13-MAR-2003.
                  US2003049631-A1
                                                           modified_base
                                                                                                      Nanotechnology;
                                                                                                                                         15-OCT-2003
                                                                                                                                        (first entry)
                                                                                                       nucleic acid detection; nanofabrication; nanoprobe;
                                                                   Location/Qualifiers
                                  /mod_base= OTHER
/note= "OTHER= Tl
                                    Thiol modified" "
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RESULT 676
ACD99851
ID ACD998
XX
AC ACD998
XX
DT 25-SEF
XX
DE Immunc
XX
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                                                                                                                                                                                                                                                                                                                                                                                detectable change occurs. The method of the invention is useful for detecting two or more nucleic acids (from a biological source) having at least two portions, such as viral RNA, bacterial or fungal DNA, a gene associated with a disease, synthetic, or structurally-modified natural or synthetic RNA or DNA, or a product of a polymerase chain reaction amplification. Nanoparticle-oligonucleotide conjugates of the invention are useful for preparing a nanoprobe conjugate for detecting an analyte, and for detecting a nucleic acid bound to an electrode surface.

C Nanoparticles and nanoparticle conjugates of the invention are useful for nanofabrication and for separating a selected nucleic acid having two portions from other nucleic acids. Diagnostic assays employing nanoparticle-oligonucleotide conjugates improve the sensitivity of nucleic acid detection methods and can be used to detect nucleic acids that are present in only small amounts in a sample. The invention also provides highly desirable nanoparticle-oligonucleotide conjugates. These conjugates are stable with tailored hybridisation abilities. The present sequence represents a thiol modified oligonucleotide sequence used to
                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       to them, which have a sequence complementary to a sequence of two portions of nucleic acid, contacting the nucleic acid and nanoparticles to allow hybridisation of the oligonucleotides with two or more portions of the nucleic acid, and observing a detectable change brought about by the hybridisation. The nucleic acid to be detected must have at least two portions and the distances between these are chosen so that when the nanoparticle-oligonucleotide conjugate binds the target sequence a
                       Immunostimulatory nucleic acid #537.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Detection of nucleic acid having at least two portions, by contacting nucleic acid and nanoparticles under conditions, which allows hybridization of oligonucleotides on nanoparticles with at least two portions of nucleic acid.
                                                              25-SEP-2003
                                                                                                 ACD99851;
                                                                                                                                     ACD99851 standard;
                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                       demonstrate the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This invention relates to a novel method for detecting nucleic acids. method comprises providing nanoparticles with oligonucleotides attach
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 18; Page 44; 108pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-634854/60.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Taton
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mirkin CA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26-APR-2000;
26-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-JAN-1999;
25-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29-JUL-1996;
21-JUL-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10-OCT-2001; 2001US-00974500
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                                                                                                                                                                                                                                   \vdash
                                                                                                                                                                                                                                                                                                       l Similarity
16; Conserv
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                                                                                                                                                                                                                                 АААААААААААААААА 18
                                                                                                                                                                                                                                                                                                                                                                                ₽₽;
                                                                                                                                                                                                                                                                                                        Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2000US-0200161P.
2000US-00603830.
                                                              (first entry)
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99US-00344667.
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                                                                                                                                                                                                                                                                                                                                                                                20
                                                                                                                                     DNA;
                                                                                                                                                                                                                                                                                                                                                                                A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                        1.1%;
                                                                                                                                     20
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                                                                                                                                                                                                                                                                                                        0;
                                                                                                                                                                                                                                                                                                                          Score 14.8; DB 1;
Pred. No. 4.4e+02;
                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Storhoff JJ,
                                                                                                                                                                                                                                                                                                                                           DB 1;
                                                                                                                                                                                                                                                                                                                                           Length
                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Elghanian
                                                                                                                                                                                                                                                                                                                                           20
                                                                                                                                                                                                                                                                                                        0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           attached
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ACD99847/c
ID ACD998
XX ACD998
AC ACD998
XX 25-SEP
XX Immuno
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention describes a method of treating non-allergic inflammatory disease comprising administering to a subject having or at risk of developing a non-allergic inflammatory disease an immunostimulatory nucleic acid for prevention or treatment of the disease. The method is useful for treating non-allergic inflammatory diseases, such as psoriasis, eczema, allergic contact dermatitis, latex dermatitis or inflammatory bowel disease e.g., ulcerative colitis or Crohn's disease. This sequence represents an immunostimulatory nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Treating non-allergic inflammatory diseases, such as psoriasis, ecz allergic contact dermatitis, latex dermatitis or inflammatory bowel disease by administering an immunostimulatory nucleic acid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Immunostimulatory; antiinflammatory; dermatological; antipsoriatic; antiulcer; gene therapy; vaccine; non-allergic inflammatory disease; psoriasis; eczema; allergic contact dermatitis; latex dermatitis; inflammatory bowel disease; ulcerative colitis; Crohn's disease; ss.
                                                                                                                                                                                                                                                                        Synthetic
                                                                                                                                                                                                                                                                                                                                                            Immunostimulatory; antiinflammatory; dermatological; antipsoriatic; antiulcer; gene therapy; vaccine; non-allergic inflammatory disease psoriasis; eczema; allergic contact dermatitis; latex dermatitis;
                                  29-MAR-2001; 2001US-0279642P
                                                                                          29-MAR-2002; 2002US-00112653.
                                                                                                                                                     13-MAR-2003
                                                                                                                                                                                                                US2003050268-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Immunostimulatory nucleic acid #533
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACD99847;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACD99847 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 20 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Page 23; 229pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-521815/49.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (KRIE/) KRIEG A M. (BERG/) BERG D J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29-MAR-2001; 2001US-0279642P
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                                                                                                                                                                                                                                                                                                                                   inflammatory bowel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-SEP-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                allergic contact dermatitis; latex de disease; ulcerative colitis; Crohn's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20
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Pred. No. 4.
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Best Local S
Matches 16
                                                                                                                  Treating allergic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Immunostimulatory; antiinflammatory; dermatological; antipsoriatic; antiulcer; gene therapy; vaccine; non-allergic inflammatory disease; psoriasis; eczema; allergic contact dermatitis; latex dermatitis; inflammatory bowel disease; ulcerative colitis; Crohn's disease; ss.
The invention describes a method of treating non-allergic inflammatory disease comprising administering to a subject having or at risk of
                                                                                                                                                                             WPI; 2003-521815/49.
                                                                                                                                                                                                                                                                                                                                                    29-MAR-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    useful for treating non-allergic inflammatory diseases, such as psoriasis, eczema, allergic contact dermatitis, latex dermatitis or inflammatory bowel disease e.g., ulcerative colitis or Crohn's disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention describes a method of treating non-allergic inflammated disease comprising administering to a subject having or at risk of developing a non-allergic inflammatory disease an immunostimulatory nucleic acid for prevention or treatment of the disease. The method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Treating non-allergic inflammatory diseases, such as psoriasis, allergic contact dermatitis, latex dermatitis or inflammatory by disease by administering an immunostimulatory nucleic acid.
                                                                                                                                                                                                                                                                                                             29-MAR-2001; 2001US-0279642P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Immunostimulatory nucleic acid #218.
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                                                                                        non-allergic inflammatory diseases, such as psoriasis, contact dermatitis, latex dermatitis or inflammatory by administering an immunostimulatory nucleic acid.
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ilarity 88.9%;
Conservative
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Pred. No. 4.4e
O; Mismatches
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Best Local S
Matches 16
The invention discloses a hairpin sensor comprising a hairpin loop assembly including a complementary probe positioned between a first inverse repeat arm and a second inverse repeat arm, and a quenchable fluorescing agent joined, directly or indirectly, to the end of the second inverse repeat arm of the hairpin loop assembly opposite the complementary probe. Also claimed is a microarray comprising the hairpin sensor, where the end of the first inverse repeat arm opposite the complementary probe is bound, directly or indirectly, to a support, a kit for detecting a target nucleotide sequence in a sample comprising the hairpin sensor, and a support, and a hairpin sensor system, in which the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          developing a non-allergic inflammatory disease an immunostimulatory nucleic acid for prevention or treatment of the disease. The method useful for treating non-allergic inflammatory diseases, such as psoriasis, eczema, allergic contact dermatitis, latex dermatitis or inflammatory bowel disease e.g., ulcerative colitis or Crohn's disease this sequence represents an immunostimulatory nucleic acid
                                                                                                                                                                                                                                                                                                                                         Hairpin sensor useful for detecting a target nucleotide sequence in sample, comprises a hairpin loop assembly including a complementary and a quenchable fluorescing agent.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hairpin sensor; hairpin loop; complementary probe; inverse repeat arm; quenchable fluorescing agent; microarray; semiconductor; nanocrystal; rhodamine B-labelled dye; detection; gold support; ss.
                                                                                                                                                                                                                                                                                           Example
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                                                                                                                                                                                                                                                                                        Page 11; 16pp;
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/bound moiety= "Hairpin oligonucleotide
/note= "Forms a doube-stranded region wi
oligonucleotide shown in examples 3, 4 s
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ADACH 78

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cc above hairpin sensor assemblies. The hairpin sensor further comprises a cc functional group joined to the end of the first inverse repeat arm cc opposite the complementary probe, or first spacer opposite the first comprises a complementary probe, or first spacer opposite the first composite the first composite repeat arm cc inverse repeat arm the functional group selected from amino, carboxyl, cthiol and hydroxyl. Further, the sensor comprises a ligand positioned cc between the second inverse repeat arm and the quenchable fluorescing agent, where the ligand is selected from mercapto, hydroxyl, amino, cr furile and carboxyl, carboxylic acid, organic acid and amino acid. The cc quenchable fluorescing agent which comprises a semiconductor nanocrystal cor rhodamine B-labelled dye, within the microarray the support is capable of accepting a charge. At least one hairpin sensor comprises two or more hairpin sensor include complementary probes that are the same or different and respective quenchable cc fluorescing agents that are the same or different. The two or more can system are arranged in a spatially-defined pattern. The sensor cample. Further, the method involves identifying the target nucleotide sequence in a sample. Further, the method involves identifying the target nucleotide complementary probes or quenchable fluorescing agents, that are cc different. The sequence binds. The two or more hairpin sensors include complementary probes or quenchable fluorescing agents, that are cc different. The sequence presented is the hairpin oligonucleotide target complementary probes or quenchable fluorescing agents, that are cc different. The sequence presented is the hairpin oligonucleotide target complementary probes or quenchable fluorescing agents, that are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
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Best Local S
Matches 16
                                                                                                                                                                                             29-JUL-1996;
21-JUL-1997;
29-JAN-1999;
25-JUN-1999;
26-APR-2000;
26-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ss; nanoparticle; colloidal gold; semiconductor; nanomaterial; nanostructure; viral disease; human immunodeficiency virus infection; hepatitis virus infection, herpes virus infection; cytomegalovirus virus infection; Epstein-Barr virus; bacterial disease; sexually transmitted disease; inherited disorders; paternity testing;
                                                                Mirkin CA,
                                                                                                                                                                                                                                                                                                                                                                                                                                   12-OCT-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10-APR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US2003068622-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cell line authentication;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nanoparticle labelled
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            06-NOV-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADA06159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADA06159 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   particle is conductive or semi-conductive, including at least one of
                                                                                                                                       (NANO-) NANOSPHERE INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            μ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAAAAAAAAAAAAAAA 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ААААААААААА 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                Letsinger RL,
                                                                                                                                                                                                    2000US-0200161P
2000US-00603830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                   2001US-00976863.
                                                                                                                                                                                                                                                                    99US-00240755.
99US-00344667.
                                                                                                                                                                                                                                                                                                                                    97WO-US012783.
                                                                                                                                                                                                                                                                                                                                                               96US-0031809P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    88.98;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            oligonucleotides, spacer DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gene therapy.
                                                                       Mucic RC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 14.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pred. No. 4.4e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                       Storhoff JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                       Elghanian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                          æ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the
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cc sequence complementary to sequence of at least two portions of NA),

cc contacting NA and NP to allow hybridisation of (0) on NP with 2 or more

cc portions of NA, and observing a detectable change brought about by

cc hybridization of (0) on NP with NA. Also included are aggregate probes,

cc core probes, substrate having NP attached to it, a metallic or

cc comprising nanoparticles and methods of nanofabrication utilising

cc nanoparticles and satellite probes. The methods, probes nucleic acids,

cc nanoparticles and oligonucleotides are useful for separating a selected

cc nucleic acid having at least two portions, from other nucleic acids, and

cc nanoparticles and oligonucleotides are useful for separating a selected

cc nanoparticles and oligonucleotides are useful for separating as selected

cc nanoparticles and oligonucleotides are useful for separating as selected

cc nanoparticles and strop portions. From other nucleic acids, and

cc promoter of nucleic acids which may be used for diagnosis of disease and in

cc sequencing of nucleic acids for diagnosis and/or monitoring of viral diseases

cc (human immunodeficiency virus, hereferably, the method is useful for

cc cytomegalovirus and Epstein-Barr virus), bacterial diseases, sexually

cr transmitted diseases, inherited disorders, in forensice, in DNA

cc sequencing, for paternity testing, for cell line authentication, for

cc monitoring gene therapy, etc. The method is useful in research and

cc presence of specific pathogens, etc. Detecting nucleic acids based on

cc observing a colour change with the naked eye is cheap, fast, simple and

cc invention.
Detecting nucleic acids having at least 2 portions comprises use nanoparticles which have oligonucleotides attached to them that a complementary to portions of the target nucleic acid sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             portions comprises providing a type of nanoparticles (NP. e.g. cogold) having oligonucleotides (O) attached (where (O) on each NP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 18; Page 44; 130pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to detecting a nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (NA)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        having at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               at least 2 colloidal
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RESULT 681
ACD26995
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                                                                                                                                                                                                                                                                             Best
                                                                                                                                                                                                                                                                   Matches
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                                                                             Key
                                                                                                                                                                                                                                                                                                      Sequence 20 BP; 20 A; 0 C; 0
                                                                                             Synthetic
                                                                                                              Nanotechnology; nucleic acid detection; nanofabrication; nanoprobe; ss
                                                                                                                                Nanotechnology nucleic
                                                                                                                                                  15-OCT-2003
                                                                                                                                                                    ACD26995
                         US2003049630-A1
                                                                   modified_base
                                                                                                                                                                                     ACD26995 standard; DNA; 20
                                                                                                                                                                                                                                                                            Local
                                                                                                                                                                                                                                                  1520 AAAAAAAAAAAAGTAAAA 1537
                                                                                                                                                                                                                                                                   16;
                                                                                                                                                                                                                                1 AAAAAAAAAAAAAAAA 18
                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                  (first entry)
                                                                            Location/Qualifiers
                                          note= "OTHER= Thiol modified"
                                                                                                                                                                                                                                                                            1.1%;
                                                   base= OTHER
                                                                                                                                 acid detection method oligonucleotide #54.
                                                                                                                                                                                     ВP
                                                                                                                                                                                                                                                                   <u>,,</u>
                                                                                                                                                                                                                                                                            Score 14.8;
Pred. No. 4.
                                                                                                                                                                                                                                                                                                      G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                             4.4e+02;
                                                                                                                                                                                                                                                                                      DB 1;
                                                                                                                                                                                                                                                                   2
                                                                                                                                                                                                                                                                                    Length 20;
                                                                                                                                                                                                                                                                   0
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13-MAR-2003

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RESULT 682
ADB36933
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                                                                                                                                                                                                                                                                                                                                                                                                                         SXXXXXXXXXXXX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This invention relates to a novel method for detecting nucleic acids. The CC method comprises providing nanoparticles with oligonucleotides attached to them, which have a sequence complementary to a sequence of two complements of nucleic acid, contacting the nucleic acid and nanoparticles to allow hybridisation of the oligonucleotides with two or more portions of the nucleic acid, and observing a detectable change brought about by cc the hybridisation. The nucleic acid to be detected must have at least two portions and the distances between these are chosen so that when the canoparticle-oligonucleotide conjugate binds the target sequence a cc detectable change occurs. The method of the invention is useful for a detectable change occurs. The method of the invention is useful for a secolated with a disease, synthetic, or structurally-modified natural or synthetic RNA or DNA, or a product of a polymerase chain reaction camplification. Nanoparticle-oligonucleotide conjugates of the invention and for detecting an anapyrobe conjugates of the invention are useful for nanoparticles and nanoparticle conjugates of the invention are useful for canoparticles and nanoparticle conjugates of the invention are useful for nucleic acid methods and can be used to detect muleic acid having two confused acid detection methods and can be used to detect muleic acids that are present in only small amounts in a sample. The present sequence created of the invention and the conjugates of the invention of the invention and two detects and the ordered to demonstrate conjugates of the invention of the invention are sequence.
                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-JUL-1996;
21-JUL-1997;
29-JAN-1999;
25-JUN-1999;
26-APR-2000;
Synthetic
                                ds; allergy; asthma; poly-G nucleic acid; aerosol formulation;
hypo-responsive subject; immunostimulatory.
                                                                                                                        04-DEC-2003
                                                                                                                                                                                         ADB36933 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Detecting nucleic acid having two portions, by providing nanoparticles having oligonucleotides attached to it, contacting nucleic acid and nanoparticles to allow hybridization, and observing detectable change.
                                                                                                                                                          ADB36933;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 18; Page 43; 129pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-615795/58.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mirkin CA,
                                                                                 Immunostimulatory nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (NANO-) NANOSPHERE INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-SEP-2001;
                                                                                                                                                                                                                                                                                                                   1520
                                                                                                                                                                                                                                                                                                                                                                                                                                                            method of the
                                                                                                                                                                                                                                                                                                                                                    16;
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                                                                                                                                                                                                                                                                                 AAAAAAAAAAAAAAAAAA 18
                                                                                                                                                                                                                                                                                                                  AAAAAAAAAAAGTAAAA 1537
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99US-00240755.
99US-00344667.
2000US-0200161P.
2000US-00603830.
                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 20
                                                                                                                                                                                                                                                                                                                                                    Conservative
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                                                                                                                        (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            invention
                                                                                                                                                                                                                                                                                                                                                                                                                        A; 0 C; 0 G; 0 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                     1.1%;
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                                                                                                                                                                                           20
                                                                                                                                                                                           ВP
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                                                                                                                                                                                                                                                                                                                                                                     Score 14.8;
Pred. No. 4.
                                                                                     #547
                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Storhoff
                                                                                                                                                                                                                                                                                                                                                                     4.4e+02
                                                                                                                                                                                                                                                                                                                                                                                   DB 1; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                        0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ę
                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Elghanian
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                                                                                                                                                                                                                                                                                                                                                    Gaps
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RESULT 683
ADB36601/c
ID ADB366
XX ADB366
XX ADB366
XX Immuno
XX Immuno
XX ds; al
KW hypo-r
XX hypo-r
XX hypo-r
XX hypo-r
XX OS-MAY
XX OS-FEB
XX O2-FEB
XX O2-FEB
XX O3-FEB
XX O3-FEB
XX PF O3-FEB
XX PF
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        asthma which comprises administering to a subject a poly-G nucleic acid in an aerosol formulation. The methods and compositions of the present invention are useful for diagnosing and/or treating asthma and allergy especially in a hypo-responsive subject. The present sequence represent an immunostimulatory nucleic acid of the invention.
  Treating and/or preventing allergy or asthma using an immunostimulatory nucleic acid alone or in combination with an asthma/allergy medicament.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ds; allergy; asthma; poly-G nucleic acid; aerosol hypo-responsive subject; immunostimulatory.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 20
                                                                           WPI; 2003-657977/62
                                                                                                                       Bratzler RL,
                                                                                                                                                                                                                                                                           03-FEB-2000; 2000US-0179991P
                                                                                                                                                                                                                                                                                                                            02-FEB-2001; 2001US-00776479.
                                                                                                                                                                                                                                                                                                                                                                              08-MAY-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                               US2003087848-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Immunostimulatory nucleic acid #215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         04-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADB36601;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADB36601 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 13; 221pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Treating and/or preventing allergy or asthma using an immunostimulatory nucleic acid alone or in combination with an asthma/allergy medicament.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bratzler RL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             03-FEB-2000; 2000US-0179991P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            02-FEB-2001; 2001US-00776479
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                                                                                                                                                                        (BRAT/) BRATZLER R L.
(PETE/) PETERSEN D M.
(FOUR/) FOURON Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-657977/62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (BRAT/) BRATZLER (PETE/) PETERSEN (FOUR/) FOURON Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1520 AAAAAAAAAAAAGTAAAA 1537
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                            Petersen
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Pred. No. 4
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RESULT 684
ADB36929/c
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                                                                                                                                                                                                                                                    The invention relates to a method of treating or preventing allergy or asthma which comprises administering to a subject a poly-G nucleic acid in an aerosol formulation. The methods and compositions of the present invention are useful for diagnosing and/or treating asthma and allergy especially in a hypo-responsive subject. The present sequence represent an immunostimulatory nucleic acid of the invention.
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                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Page 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Treating and/or preventing allergy or asthma using an immunostimulatory nucleic acid alone or in combination with an asthma/allergy medicament.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bratzler RL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  03-FEB-2000; 2000US-0179991P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ds; allergy; asthma; poly-G nucleic acid; aerosol formulation;
hypo-responsive subject; immunostimulatory.
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                                                                                                      Local Similarity
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                                                AAAAAAAAAAAGTAAAA 1537
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M.L.
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                                                                                                                           1.1%;
                                                                                                                                                                                                         0 C; 0 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                             221pp; English.
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                                                                                                                              Score 14.8; DB 1;
Pred. No. 4.4e+02;
                                                                                                        Mismatches
                                                                                                                                                      Length
                                                                                                        Indels
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BXGXAXU

ADE28908

Reverse Ag6858 29-JAN-2004

RT-PCR primer used

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amplify

human NOV

(first entry)

RESULT 686 ADE28908/c

ADE28908 standard; DNA;

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XX Deteri

                                                                                                                              Matches
                                                                                                                                                        Query Match
Best Local (
                                                                                                                                                                                                                                                                                                           The present invention describes a method of determining whether an individual is predisposed to susceptibility to low bone mineral density (BMD) and/or bone damage comprising identifying whether the individual has at least one polymorphism in a polymucleotide encoding a protein, where the polymorphism in a polymucleotide encoding a protein, see ADC98235 to ADC98315). An agent identified in an method from the present invention which can be used for the prevention or treatment of a disease resulting in susceptibility to low BMD and/or bone damage is useful in the manufacture of a medicament for use in modulating the susceptibility to low BMD and/or bone damage. The disease associated with low BMD and/or bone damage is osteoporosis. The present pcm primer sequence is used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Determining whether an individual is predisposed to susceptibility to low bone mineral density (BMD) and/or bone damage, involves identifying polymorphisms in associated genes.
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04-NOV-2002; 2002US-0423559P.
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                                                                                                                                                                                                                                                     Sequence 20 BP; 2 A; 0 C; 2 G; 16 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 8; Page 237; 246pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (INCY-) INCYTE GENOMICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens.
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ω
                                                                                                                                                        Similarity
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Schafer A;
                                                                                                                              Conservative
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                                                                                                                          Score 14.8; DB 1; Pred. No. 4.4e+02; 0; Mismatches 2
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07-DEC-2001;

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31-DEC-2002;

17-ARY-2002;

15-MAY-2002;

28-MAY-2002;

29-MAY-2002;

29-MAY-2002;

29-MAY-2002;

29-MAY-2002;

29-MAY-2002;

29-MAY-2002;

29-MAY-2002;

29-MAY-2002;
The invention relates to a novel isolated NOVX polypeptide. The polypeptide of the invention demonstrates, antidiabetic, anorectic, cardiant, hypotensive, antiarteriosclerotic, virucide, antibacterial, fungicide, protozoacide, nootropic, neuroprotective, antiparkinsonian, anticonvulsant, osteopathic, antiarthritic, antiinfiammatory, dermatological, antiasthmatic and antilipaemic activities. The polypeptides, nucleic acid molecules and antibodies may be useful for treating or diagnosing diseases including metabolic disorders such as diabetes and obesity, infectious diseases, anorexia, cancer, cardiovascular diseases including hypertension and atherosclerosis, neurodegenerative disorders such as Alzheimer's disease, Parkinson's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Alsobrook JP, Alvarez E, Anderson DW, Baron M, Boldog FL; Burgess CE, Casman SJ, Chapoval A, Dhanabal M, Edinger SR, Eisen Ellerman K, Ettenberg S, Gangolli EA, Gerlach VL, Gorman L; Grosse WM, Guo X, Hackett C, Ji W, Kekuda R, Khramtsov NV; Lepley DM, Li L, Macdougall JR, Malyankar UM, Mazur A, Mcqueeney Mezes PS, Miller CE, Millet I, Mishra VS, Padigaru M, Patturajan Pena CEA, Peyman JA, Rastelli L, Rieger DK, Shenoy SG, Shimkets R Smithson G, Starling G, Spytek KA, Stone DJ, Tchernev VT, Twomlow Vernet CAM, Zerhusen BD, Zhong M;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New isolated NOVX polypeptides and polynucleotides, useful for preventing, diagnosing or treating NOVX-associated disorders, osteoarthritis, obesity, atherosclerosis, cancer, Parkinson's
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                                                                                                                                                                                                                                                                                                                                                                                                            Example
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2001US-0341346P.
2001US-03413477P.
2001US-0341540P.
2001US-0342592P.
2001US-0342592P.
2002US-034903P.
2002US-0380981P.
2002US-0380981P.
2002US-0381495P.
2002US-0381495P.
2002US-03835344P.
2002US-03835394P.
2002US-0383747P.
2002US-0383747P.
2002US-0406353P.
2002US-0406353P.
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disease,
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RESULT 687
ADB52460/c
ID ADB524
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XX ADB524
XX Stem c
XX Intest
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KW chromb
KW millar
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Best Local S
Matches 16
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10-APR-1991;
25-NOV-1992;
21-DEC-1993;
24-MAY-1995;
12-JAN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Stem cell factor; SCF; haematopoietic activity; infertility; intestinal damage; myeloproliferative disorder; leucopenia; thrombocytopenia; anaemia; bone marrow transplant; immune def neoplasia; nerve damage; osteoporosis; metastatic carcinoma; miliary tuberculosis; haematopoietic progenitor cell; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       disease and epilepsy, immune disorders e.g. osteoarthritis, haemopoietic disorders, inflammatory skin disorders, asthma and dyslipidaemia. Furthermore, the nucleic acids and polypeptides may also be used to identify molecules that modulate or inhibit neurogenesis, cell differentiation and proliferation, haemopoiesis, wound healing and angiogenesis, as well as in gene therapy. Finally, the nucleic acids may be used as hybridisation probes, in chromosome mapping, tissue typing, preventive medicine and pharmacogenomics. The current sequence is that of the process of the process of the current sequence is that of the current process.
                                                                                                                                                                                                                                                                                                 (ZSEB/)
(BOSS/)
(SUGG/)
(MART/)
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BOSSELMAN I
SUGGS S V.
MARTIN F H
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92US-00982255.
93US-00172329.
95US-00449653.
98US-00005893.
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90US-00589701.
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90US-00537198
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0; Mismatches
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                                                                                                                                                                                                                                                       Martin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          U; 0 Other;
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The invention relates to stem cell factor (SCF) haematopoietic activity and the polynucleotides polypeptides are used for treating infertility,

polypeptides with encoding them. The intestinal damage,

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32;

217pp;

English

non-natural stem cell factor, useful for treating e.g. l une deficiency, also related nucleic acid and antibodies.

leucopenia

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RESULT 688
ADE524462/c
ID ADE524
XX ADE524
XX ADE524
XX Stem C
XX Stem C
XX Stem C
XX Stem C
XX Intest
KW Intest
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Best Local :
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11-JUN-1990;
24-AUG-1990;
01-OCT-1990;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Stem cell factor; SCF; haematopoietic activity; infertility; intestinal damage; myeloproliferative disorder; leucopenia; thrombocytopenia; anaemia; bone marrow transplant; immune deficiency; neoplasia; nerve damage; osteoporosis; metastatic carcinoma; leukaemia; miliary tuberculosis; haematopoietic progenitor cell; ss.
                                                                                                                                                                                                                                                                                               (ZSEB/)
(BOSS/)
(SUGG/)
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24-MAY-1995;
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                                                                                     non-natural stem cell factor, useful for treating e.g. leucopenia une deficiency, also related nucleic acid and antibodies.
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BOSSELMAN R A.
SUGGS S V.
MARTIN F H.
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91US-00684535.
92US-00982255.
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90US-00537198.
90US-00573616.
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Pred. No. 4.
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immune

deficiency,

SEQ

ij

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217pp; English

The invention relates to a method of detecting a nucleic acid with at least two portions by providing a type of nanoparticle-oligonucleotide conjugate, contacting the nucleic acid and nanoparticles to allow

Example 18; SEQ

ID NO

55; 129pp; English

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ADFORMATION AND ADFORMATION AND ADFORMATION AND ADFORMATION ADFORMATION AND ADMINISTRATION AND ADMIN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 16
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21-JUL-1997;
29-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                            Mirkin CA,
Taton TA;
                                                                                                                                                             Detection of nucleic acid having at least two portions comprises contacting the nucleic acid and nanoparticles under conditions to hybridization of the oligonucleotides, and observing detectable obrought by hybridization.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-JUN-1999;
26-APR-2000;
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                                                                                                                                                                                                                                                                                                         WPI; 2003-897536/82.
                                                                                                                                                                                                                                                                                                                                                                                                                                               (NAMO-) NAMOSPHERE INC.
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; 97WO-US012783.
99US-00240755.
; 99US-00344667.
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Pred. No. 4
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25-JUN-1999;
26-APR-2000;
26-JUN-2000;
                                                                               The invention relates to a method of detecting a nucleic acid with at least two portions by providing a type of nanoparticle-oligonucleotide conjugate, contacting the nucleic acid and nanoparticles to allow hybridisation of the oligonucleotides with the two or more portions of the nucleic acid and observing a detectable change brought about by hybridisation. The oligonucleotides have a sequence complementary to the sequence of at least two portions of the nucleic acid. Hybridisation of the oligonucleotides on the nanoparticles with the nucleic acid results in a detectable change. This sequence represents a linking
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the nucleic acid and observing a detectable change brought about by hybridisation. The oligonucleotides have a sequence complementary to the sequence of at least two portions of the nucleic acid. Hybridisation of the oligonucleotides on the nanoparticles with the nucleic acid results in a detectable change. This sequence represents a linking oligonucleotide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                         Detecting nucleic acid having two portions, by providing nanoparticles having oligonucleotides attached to it, contacting nucleic acid and nanoparticles to allow hybridization, and observing detectable change.
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Pred. No. 4
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Matches 16;
                                                                                                   The present invention relates to methods of detecting nucleic acids whether natural or synthetic and whether modified or unmodified. The invention also relates to materials for detecting nucleic acids and to methods of separating a selected nucleic acid from other nucleic acids. The invention is useful for detecting nucleic acid having at least2 portions. The present sequence is an oligonucleotide used to synthesise and purify fluorescein labelled oligonucleotides
                                                                                                                                                                                                          Detection of nucleic acid with two portions comprises providing nanoparticles having oligonucleotides, contecting nucleic acid nanoparticles to allow hybridization of oligonucleotides on nanoparticles, and observing detectable change.
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                                                                                                                                                                                                                                                                                                Storhoff JJ,
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RESULT 69
ADG32620
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ADF65590
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Matches 16
                                                                                                                                                                                                                                The invention relates to a method of detecting a nucleic acid with at least two portions by providing a type of nanoparticle-oligonucleotide conjugate, contacting the nucleic acid and nanoparticles to allow hybridisation of the oligonucleotides with the two or more portions of the nucleic acid and observing a detectable change brought about by hybridisation. The oligonucleotides have a sequence complementary to the sequence of at least two portions of the nucleic acid. Hybridisation of the oligonucleotides on the nanoparticles with the nucleic acid results in a detectable change. This sequence represents a linking oligonucleotide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-JUN-1999;
26-APR-2000;
26-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                        Detection of nucleic acid useful for, e.g. research and analytical laboratories in deoxyribonucleic acid sequencing, comprises contacting nucleic acid with at least two types of nanoparticles attached with
 26-FEB-2004
                        ADG32620;
                                                ADG32620
                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                       Example 18;
                                                                                                                                                                                                                                                                                                                                                                                               oligonucleotides.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mirkin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21-JUL-1997;
29-JAN-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Linking oligonucleotide; ss; nucleic acid detection; nanoparticle-oligonucleotide conjugate.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Nanotechnology nucleic acid detection method associated
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                                                                                                                                                            Local Similarity hes 16; Conserv
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                                               standard;
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                                                                                                                                                                                                           BP;
                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO
                                                                                                                                                            Conservative
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2000US-0200161P.
2000US-00603830.
 (first entry)
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Pred. No. 4.4e+02;
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                                                                                                                                                                                   DB 1; Length 20;
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RESULT 694
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Matches 16
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22-JAN-2002; 2002US-0351238P.
29-JAN-2002; 2002US-0352914P.
12-FEB-2002; 2002US-0357161P.
15-MAY-2002; 2002US-0381086P.
16-MAY-2002; 2002US-0381739P.
                                                                                                                                                                                                                                                                                                                                                             This invention relates to novel vanilloid receptor (VR) related nucleic acids and encoded proteins thereof. Specifically, it refers to certain members of the VR family that are involved in pain perception, in particular, TRPV3 (previously known as VRLS, VRLX, VR4 & TRPV7). TRPV4 (previously known as VR13 & OTRPC4) and TRPM8 (previously known as TRPX). Furthermore, this invention includes trkA+ pain specific genes expressed in the sensory neurons of the dorsal root ganglia. Accordingly, such compositions can be useful for the diagnosis, treatment and prevention of pain, inflammation, skin disorders and cancer, and so exhibit analgesic, antiinflammatory, dermatological and cytostatic activities. This oligonucleotide sequence is a PCR primer used to amplify the murine TRPV3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New isolated TRPV3, TRPV4 or TRPM8 vanilloid receptor nucleic a molecule and polypeptides, useful for the diagnosis and treatme disorders such as pain, inflammation, skin diseases and cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        mouse; murine; PCR; ss; vanilloid receptor; VR; pain perception; VRLS; VRLX; VR4; TRPV7; TRPV4; VRL3; OTRPC4; TRPM8; TRPX; trkA+; inflammation; skin disorder; cancer; analgesic; antiinflammatory;
             probe
                       non-nucleotide probe; Bacterial Artificial Chromosome clone; BAC;
                                                      Non-nucleotide
                                                                                                              ADH59608;
                                                                                                                                                                                                                                                                                                                           Sequence 20 BP; 0 A; 3 C; 6 G; 11 T; 0 U;
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                                                                                                                                          ADH59608
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                                                                                                                                                                                                                                                                                  Similarity
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                                                                                                                                          standard;
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                                                                                                                                                                                                                                                                                                                                                       invention.
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                                                                                  (first
                                                    probe of the invention #12
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Pred. No. 4.4e+02
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                                                                                                                                                                                                                                                                      Mismatches
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Synthetic

WO2003027328-A2

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CC useful for suppressing the binding of one or more detectable nucleic acid CC probes, that are greater than 100 base pairs and that have been derived CC from genomic nucleic acid, to one or more undesired sequences in an assay CC for determining target genomic nucleic acid of a sample. The method CC comprises contacting the sample with the one or more CC mucleic acid of the sample by determining the target genomic nucleic acid probes, and determining the target genomic CC nucleic acid of the sample by determining the hybridization of the one or more CC more detectable nucleic acid probes to the target genomic nucleic acid of the sample. The genomic nucleic acid is contained in a fixed tissue or a CC cell, and the sample is metaphase spreads, interphase nucleic acid with CC that of a control sample using a genomic nucleic acid with CC that of a control sample using a genomic nucleic acid and CC control genomic nucleic acid, which are differentially labeled, the array or both the sample and control genomic nucleic acid and the array or both the mixture of the probe under suitable hybridization conditions, CC contacting the array with treated mixture of sample and comtrol genomic nucleic acid and the array or bath the airay with treated mixture of sample and comtrol genomic conditions, that caused by hybridization of the probes to genomic nucleic acid, thus ce that caused by hybridization of the probes to genomic nucleic acid, thus ce sample as compared with the relative copy numbers of substantially contact sequences in the control sequence in the genomic nucleic acid nucleic acid, thus determining one or more variations in copy numbers of substantially corrected and the array to determining using an intercalating dye or a detectable antibody, or its fragment, that is specific for a nucleic acid/nucleic acid hybrid. The sample of genomic array is determined by determining the presence, absence, as an accordinate of the detectable moiety such that hybridization of the detectable moiety such that hybridization co
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                                           Matches
                                                                                Query Match
                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Non-nucleotide probe for suppressing binding of detectable nucleic acid probes to undesired sequences, has aggregate nucleobase sequence homologous to randomly distributed repeat sequence of genomic nucleic
                                                                                                                                                                     represents a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 10; SEQ ID NO 14; 103pp; English
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                                           Local Similarity hes 16; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           present sequence represents a non-nucleotide probe. The probe is
  1520 AAAAAAAAAAAAGTAAAA 1537
                                                                                                                              20 BP;
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                                           Conservative
                                                                                                                                                                     non-nucleotide
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                                                             1.1%;
                                                                                                                            0 C; 0
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                                                                                                                            G; 20 T; 0 U;
                                                                                                                                                                     probe
                                                               Score 14.8; DB 1; Length 20; Pred. No. 4.4e+02;
                                           Mismatches
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                                                                                                                                                                   3AC) clones. The present sequence
of the invention.
                                                             4.4e+02
                                                                                                                            0 Other;
                                           Indels
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CC cell, and the sample is metaphase spreads, interphase nucleic or nucleic cell, and the sample is metaphase spreads, interphase nucleic or nucleic composers also useful in comparing a sample of genomic nucleic acid with the form of a control sample using a genomic nucleic acid reference array. The method comprises treating a sample of genomic nucleic acid and control genomic nucleic acid and the array with the sample and control genomic nucleic acid and the array with treated mixture of sample and control genomic nucleic acid and the array contacting the array with treated mixture of sample and control genomic nucleic acid and the array to that caused by hybridization of the probes to genomic nucleic acid, thus cetaphe as compared with the relative copy numbers of sequences in the control. The hybridization of the genomic nucleic acid, thus cetaphe as compared with the relative copy numbers of sequences in the control. The hybridization of the genomic nucleic acid hybrid. The sample of genomic nucleic acid and the array to the sample of genomic nucleic acid to be tested and the reference of nucleic acid are labelled with detectable molety such that hybridization of the genomic array is determined by determining the presence, absence, amount or location of the detectable molety such that hybridization of the genomic array is determined by determining the presence, absence, amount or location of the detectable noiety such that hybridization of the genomic carray comprises nucleic acid that the presence from the detectable noiety such that hybridization of the genomic carray comprises nucleic acid that the presence from the control array comprises nucleic acid that the presence from the presents a non-nucleotide probe of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present sequence represents a non-nucleotide probe. The probe is useful for suppressing the binding of one or more detectable nucleic acid probes, that are greater than 100 base pairs and that have been derived from genomic nucleic acid, to one or more undesired sequences in an assay for determining target genomic nucleic acid of a sample. The method comprises contacting the sample with the mixture of probes (preferably comprises contacting the sample with the one or more detectable nucleic acid probes, and determining the target genomic nucleic acid of the sample by determining the target genomic nucleic acid probes to the target genomic nucleic acid of the sample by determining the hybridization of the one or more detectable nucleic acid probes to the target genomic nucleic acid of the sample by determining the hybridization of the one or more detectable nucleic acid probes to the target genomic nucleic acid of the sample. The genomic nucleic acid is contained in a fixed tissue or a second second
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              acid.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-421160/39
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Sequence 20 ₿₽; 20 A; 0 C; 0 G; 0 T; 0 U; 0 Other

RESULT 695 ADH59620

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RESULT 696
ABZ88267
ID ABZ882
XX ABZ82
XX ABZ
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                                                                                         The invention relates to a novel pharmaceutical composition, which has a CC first active agent comprising an oligonucleotide antisense to the CC initiation codon, coding region, 5' or 3' end genomic flanking regions, CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or CC massal airway dysfunction and a second active agent comprising an antialflammatory steroid and ubiquinone. A composition of the invention cation and a setting an antialflammatory, antiallergic, antiasthmatic, hypotensive, and cytostatic activity. The composition may have a cuse in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also composition gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also contininflammatory steroid in a subject for reducing levels of adenosine contininflammatory steroid in a subject, for reducing levels of adenosine contininflammation, lung allergies, or a respiratory disease or condition. CC lung inflammation, lung allergies, or a respiratory disease or condition. CC specification, but was obtained in electronic format directly from WIPO car ferry wine of the printed specification, but was obtained in electronic format directly from WIPO
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CC Note: The sequence data for this patent is not represented in the printed constriction, but was obtained in electronic format directly from WIPO
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Matches 16
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Miller S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene t antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung al
                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; SEQ ID NO 4058; 872pp; English.
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                                                                                    CC The invention relates to a novel pharmaceutical composition, which has a CC first active agent comprising an oligonucleotide antisense to the CC initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of GC junctions of genes encoding a polypeptide associated with lung and/or CC masal airway dysfunction and a second active agent comprising an CC antiinflammatory steroid and ubiquinone. A composition of the invention CC immunosuppressive, and cytostatic activity. The composition may have a CC use in antisense gene therapy. The composition is useful for treating or CC preventing a respiratory, lung or malignant disease or condition, also CC for enhancing the prophylactic or therapeutic respiratory effect of an antisinflammatory steroid in a subject, for reducing or depleting levels of or reducing sensitivity to adenosine, reducing levels of adenosine CC lung surfactant in a subject; stissue, norreasing levels of biquinone or CC lung inflammation, lung allergies, or a respiratory disease or condition. CC lung inflammation, bung allergies, or a respiratory disease or condition. CC Specification, but was obtained in electronic format directly from WIPO CC at fire, widoo. Int/bub/sublished nor accuracy.
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                                                                                                                               The invention relates to a novel pharmaceutical composition, which has a composition relates to a novel pharmaceutical composition, which has a composition antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an antiinflammatory steroid and ubiquinone. A composition of the invention has antiinflammatory, antiallergic, antiasthmatic, hypotensive, has antiinflammatory, antiallergic, antiasthmatic, hypotensive, and cycostatic activity. The composition may have a use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of, or reducing sensitivity to adenosine, reducing levels of adenosine receptor, producing bronchodilation, increasing levels of ubiquinone or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                          lung surfactant in a subject's tissue, or treating bronchoconstriction, lung inflammation, lung allergies, or a respiratory disease or condition. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; SEQ ID NO 3862; 872pp; English
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, Tang L,
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L, Shahabuddin
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Pred. No. 4.4e+02;
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S;
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RESULT 705
ABZ88814
                                      cc junctions of genes encoding a polypeptide associated with lung and/or cantiinflammatory steroid and a second active agent comprising an antiinflammatory steroid and ubiquinone. A composition of the invention chas antiinflammatory, antiallergic, antiasthmatic, hypotensive, communosuppressive, and cytostatic activity. The composition may have a cuse in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also composition the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of, or reducing sensitivity to adenosine, reducing or depleting levels of lung surfactant in a subject's tissue, or treating bronchoconstriction, composition and prophylaction increasing levels of ubiquinone or lung surfactant in a subject's tissue, or treating bronchoconstriction, composition and compositi
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Best Local Similarity
Matches 16; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to a novel pharmaceutical composition, which has first active agent comprising an oligonucleotide ances to the initiation codon, coding region, 5 or 3 end genomic flanking regions, 5 and 3 intron-exon junctions, or regions within 2-10 nucleotides of
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; SEQ ID NO 4056; 872pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24-APR-2001; 2001US-0286137P
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, Tang L,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Shahabuddin
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Pred. No. 4.4e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pabalan J,
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RESULT 707 ABZ90650

ABZ90650 standard; DNA; 20

Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;

Human oligonucleotide sequence

17-OCT-2003 ABZ90650

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i ;Matches

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Mismatches

Query Match

Local

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RESULT 7.
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                                                  CC first active agent comprising an oligonucleotide antisense to the finitiation codon, coding region, 5' or regions within 2-10 nucleotides of CC junctions of genes encoding a polypeptide associated with lung and/or CC antiinflammatory steroid and biquinone. A composition of the invention CC antiinflammatory, antiallergic, antiasthmatic, hypotensive, CC immunosuppressive, and cytostatic activity. The composition may have a CC use in antisense gene therapy. The composition is useful for treating or CC preventing a respiratory, lung or malignant disease or condition, also CC of, or reducing the prophylactic or therapeutic respiratory effect of an antisflammatory steroid in a subject, for reducing or depleting levels of of, or reducing sensitivity to adenosine, reducing levels of adenosine receptor, producing bronchodilation, increasing levels of denosine composition, lung surfactant in a subject tissue, or treating bronchoconstriction, CC lung inflammation, lung allergies, or a respiratory disease or condition. CC specification, but was obtained in electronic format directly from WIPO at ftp. wipo.int/pub/jublished_pct_sequences
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; atteroid; ubiquinone; antiinflammatory; antic; gene therapy sntisether; immunosuppressive; cytostatic; gene therapy antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
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, Tang L,
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L, Shahabuddin
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WPI; 2003-229219/22.

23-APR-2002; 2002WO-US013135

(EPIG-) EPIGENESIS PHARM INC 24-APR-2001; 2001US-0286137P

Sandrasagra A, L, Shahabuddin

Katz E,

Pabalan J,

Aguilar D;

Homo

sapiens.

inflammation; respiratory disease; ds

WO200285308-A2

Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or

Disclosure; SEQ ID NO 5892; 872pp; English

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The invention relates to a novel pharmaceutical composition, which has a CC first active agent comprising an oligonucleotide antisense to the CC initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' or 3' end genomic flanking regions, CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of CC junctions of genes encoding a polypeptide associated with lung and/or CC nasal airway dysfunction and a second active agent comprising an CC entiinflammatory, antiallergic, antiasthmatic, hypotensive, and cytostatic activity. The composition may have a CC immunosuppressive, and cytostatic activity. The composition may have a CC immunosuppressive, and cytostatic activity. The composition may have a CC even an antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also CC for enhancing the prophylactic or therapeutic respiratory effect of an CC entifilammatory steroid in a subject, for reducing or depleting levels of or reducing sensitivity to adenosine, reducing levels of adenosine creceptor, producing bronchodilation, increasing levels of bully unione or CC lung inflammation, lung allergies, or a respiratory disease or condition. CC Note: The sequence data for this patent is not represented in the printed of entire wino inframity-ministated in electronic format directly from WIPO at the wino inframity-ministated in electronic format directly from WIPO at the printed of the printed in electronic format directly from WIPO at the printed of the printed of

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                                                                                        The invention relates to a novel pharmaceutical composition, which has a CC first active agent comprising an oligonucleotide antisense to the CC initiation codon, coding region, 5' or 3' end genomic flanking regions, CC initiation codon, coding region, 5' or 3' end genomic flanking regions, CC initiation codon, coding a polypeptide associated with lung and/or coding of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an CC antiinflammatory steroid and ubiquinone. A composition of the invention catalogue in antisense gene therapy. The composition is useful for treating or use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also compressive and the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of of or reducing sensitivity to adenosine, reducing levels of adenosine receptor, producing bronchodilation, increasing levels of adenosine or condition, also confident in a subject stissue, or treating bronchoconstriction, inflammation, lung allergies, or a respiratory disease or condition. Subjective trissue, or respiratory disease or condition. The sequence data for this patent is not represented in the printed aspecification, but was obtained in electronic format directly from WIPO as fer wino int/mih/wib/lished nor segmences.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; SEQ ID NO 14292; 872pp;
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Pred. No. 4.4e+02;
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                                                                                                                                                                                                                                                                                                                                                      The invention relates to a novel pharmaceutical composition, which has first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
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Pred. No. 4.4e+02;
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                                                                                      The invention relates to a novel pharmaceutical composition, which has a CC first active agent comprising an oligonucleotide antisense to the CC initiation codon, coding region, 5' or 3' end genomic flanking regions, CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of Junctions of genes encoding a polypeptide associated with lung and/or CC nasal airway dysfunction and a second active agent comprising an CC antiinflammatory steroid and ubiquinone. A composition for the invention CC immunosuppressive, and cytostatic activity. The composition may have a CC use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also CC entiinflammatory steroid in a subject of reducing or depleting levels of of or reducing sensitivity to adenosine, reducing levels of adenosine creeptor, producing bronchodilation, increasing levels of ubiquinone or CC lung surfactant in a subject stissue, or treating bronchoconstriction, lung allergies, or a respiratory disease or condition. CC Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO
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The invention relates to a novel pharmaceutical composition, which has a cfirst active agent comprising an oligonucleotide antisense to the CC initiation codon, coding region, 5' or 3' end genomic flanking regions, CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of Junctions of genes encoding a polypeptide associated with lung and/or CC masal airway dysfunction and a second active agent comprising an CC antiinflammatory steroid and ubsquinone. A composition of the invention CC immunosuppressive, and cycostatic activity. The composition may have a CC immunosuppressive, and cycostatic activity. The composition may have a CC immunosuppressive, and cycostatic activity. The composition may have a CC entering a respiratory, lung or malignant disease or condition, also CC for enhancing the prophylactic or therapeutic respiratory effect of an CC entiinflammatory steroid in a subject, for reducing or depleting levels of or reducing sensitivity to adenosine, reducing levels of adenosine CC lung inflammation, lung allergiss, or a respiratory disease or condition. CC Note: The sequence data for this patent is not represented in the printed CC at fer wino, inframblehad nor accumence.
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                                                                                           use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antinflammatory steroid in a subject, for reducing or depleting levels of, or reducing sensitivity to adenosine, reducing levels of adenosine receptor, producing bronchodilation, increasing levels of ubiquinone or lung surfactant in a subject's tissue, or treating bronchoconstriction, lung inflammation, lung allergies, or a respiratory disease or condition. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a novel pharmaceutical composition, which has a first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an antiinflammatory steroid and ubsquinone. A composition of the invention has antiinflammatory, antiallergic, antiasthmatic, hypotensive, immunosuppressive, and cytostatic activity. The composition may have a immunosuppressive, and cytostatic activity. The composition may have a
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                                          CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleis of CC junctions of genes encoding a polypeptide associated with lung and/or CC nasal airway dysfunction and a second active agent comprising an CC antiinflammatory steroid and ubiquinone. A composition of the invention CC immunosuppressive, and cytostatic activity. The composition may have a CC use in antisense gene therapy. The composition is useful for treating or CC preventing a respiratory, lung or malignant disease or condition, also CC for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of antiinflammatory steroid in a subject, for reducing levels of adenosine CC receptor, producing benochodilation, increasing levels of adenosine CC lung surfactant in a subject stissue, or treating bronchoconstriction. CC lung inflammation, lung allergies, or a respiratory disease or condition. CC specification, but was obtained in electronic format directly from WIPO
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                                                                                                                                                                                                                                                                                                                                                                                                                                             Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                                                                                                                                                                       The invention relates to a novel pharmaceutical composition, which has first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions,
                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; SEQ ID NO 4181; 872pp; English.
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The invention relates to a novel pharmaceutical composition, which has a clive agent comprising an oligonucleotide antisense to the cinitiation codon, coding region, 5' or 3' end genomic flanking regions, cc 5' and 3' intron-exon junctions, 5' or 7' end genomic flanking regions, cc 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of cc junctions of genes encoding a polypeptide associated with lung and/or cc antiinflammatory steroid and ubiquinone. A composition of the invention cc antiinflammatory, antiallergic, antiasthmatic, hypotensive, cc immunosuppressive, and cytostatic activity. The composition may have a use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also cc for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of, or reducing sensitivity to adenosine receptor, producing bronchodilation, increasing levels of ubiquinone or lung surfactant in a subject's tissue, or treating bronchoconstriction, cluss inflammation, lung allergies, or a respiratory disease or condition. Cc lung inflammation, lung allergies, or a respiratory disease or condition. Cc at ftp.wipo.int/pub/published_pct_sequences
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                                            The invention relates to a novel pharmaceutical composition, which has a CC first active agent comprising an oligonucleotide antisense to the CC initiation codon, coding region, 5' or 3' end genomic flanking regions, CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or CC massal airway dysfunction and a second active agent comprising an CC antiinflammatory steroid and ubiquinone. A composition of the invention CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive, and cytostatic activity. The composition may have a CC use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also CC for enhancing the prophylactic or therapautic respiratory effect of an CC entiinflammatory steroid in a subject, for reducing or depleting levels of, or reducing sensitivity to adenosine, reducing levels of adenosine creceptor, producing bronchodilation, increasing levels of adenosine or CC lung surfactant in a subject's tissue, or reacting bronchoconstriction, clung surfactant in a subject's tissue, or reacting bronchoconstriction.

CC Note: The sequence data for this patent is not represented in the printed cast for wino int/en/h/williahad for segmences.
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CC note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO
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CC Note: The sequence data for this patent is not represented in the printed capteristation, but was obtained or format directly from WIPO at frem who int/mih/shad or responses.
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lung surfactant in a subject's tissue, or treating bronchoconstriction, lung inflammation, lung allergies, or a respiratory disease or condition. Respiratory disease or condition. Some respiratory disease or condition where the sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO

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                                                                                                 CC junctions of genes encoding a polypepide associated with lung and/or CC nasal airway dysfunction and a second active agent comprising an CC antiinflammatory steroid and ubiquinone. A composition of the invention thas antiinflammatory, antiallergic, antiasthmatic, hypotensive, land cytostatic activity. The composition may have a cuse in antisense gene therapy. The composition is useful for treating or CC use in antisense gene therapy. The composition is useful for treating or CC preventing a respiratory, lung or malignant disease or condition, also CC for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of of or reducing sensitivity to adenosine, reducing levels of adenosine creceptor, producing bronchodilation, increasing levels of adenosine creceptor, producing bronchodilation, increasing levels of adenosine creceptor, producing bronchodilation, increasing levels of ubiquinone or lung surfactant in a subject's tissue, or respiratory disease or condition. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO care for the printed or the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to a novel pharmaceutical composition, which has first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5 or 3 end genomic flanking regions, 5 and 3 intron-exon junctions, or regions within 2-10 nucleotides of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
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                                                                                                     The invention relates to a novel pharmaceutical composition, which has a CC first active agent comprising an oligonucleotide antisense to the CC initiation codon, coding region, 5' or 3' end genomic flanking regions, CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of compositions of genes encoding a polypeptide associated with lung and/or CC nasal airway dysfunction and a second active agent comprising an CC antiinflammatory steroid and ubiquinone. A composition of the invention CC immunosuppressive, and cytostatic activity. The composition may have a CC use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also CC for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of, or reducing sensitivity to adenosine, reducing levels of adenosine ceptor, producing sensitivity to adenosine, reducing levels of deenosine composition or condition, lung surfactant in a subject stissue, or treating bronchocomstriction, lung surfactant in a subject stissue, or treating bronchocomstriction, lung surfactant, but was obtained in electronic format directly from WIPO or the printed of the
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                                                                                       The invention relates to a novel pharmaceutical composition, which has a CC first active agent comprising an oligonucleotide antisense to the CC initiation codon, coding region, 5 or 3 end genomic flanking regions, CC 5 and 3 intron-exon junctions, or regions within 2-10 nucleotides of CC junctions of genes encoding a polypeptide associated with lung and/or CC masal airway dysfunction and a second active agent comprising an CC antiinflammatory steroid and ubiquinone. A composition of the invention CC immunosuppressive, antiallergic, antiasthmatic, hypotensive, are CC immunosuppressive, and cytostatic activity. The composition may have a CC use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also CC for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of of or reducing sensitivity to adenosine, reducing levels of adenosine creceptor, producing bronchodilation, increasing levels of ubiquinone or CC lung inflammation, lung sallergies, or a respiratory disease or condition. CC Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO of a formation of the printed of the prophylactic represented in the printed of the printed of the printed in electronic format directly from WIPO
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                                                                                     The invention relates to a novel pharmaceutical composition, which has a CC first active agent comprising an oligonuclectide antisense to the CC initiation codon, coding region, 5' or 3' end genomic flanking regions, CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or CC nasal airway dysfunction and a second active agent comprising an CC antiinflammatory steroid and ubiquinone. A composition of the invention CC immunosuppressive, and cytostatic activity. The composition may have a CC use in antisense gene therapy. The composition is useful for treating or CC preventing a respiratory, lung or malignant disease or condition, also CC for enhancing the prophylactic or therapeutic respiratory effect of an CC entiinflammatory steroid in a subject, for reducing levels of adenosine creceptor, producing bronchodilation, increasing levels of adenosine creceptor, producing bronchodilation, increasing levels of ubiquinone or CC lung surfactant in a subject stissue, or treating bronchoconstriction, lung surfactant in a subject, for reducing bronchoconstriction, continuous surfactant in a subject stissue, or treating bronchoconstriction, increasing levels of ubiquinone or CC lung surfactant in a subject stissue, or treating bronchoconstriction, continuous surfactant, but was obtained in electronic format directly from WIPO at the printed specification, but was obtained in electronic format directly from WIPO
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
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                                                                             junctions of genes encoding a polypeptide associated with lung and/or casal airway dysfunction and a second active agent comprising an antiinflammatory steroid and ubiquinone. A composition of the invention has antiinflammatory, antiallergic, antiasthmatic, hypotensive, has antiinflammatory, antiallergic activity. The composition may have a menusuppressive, and cytostatic activity. The composition may have a serior in a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of, or reducing sensitivity to adenosine, reducing levels of adenosine receptor, producing bronchodilation, increasing levels of adenosine receptor, producing bronchodilation, increasing levels of adenosine reducing inflammation, lung allergies, or a respiratory disease or condition. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO
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Pred. No. 4.4e+02;
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                                                                                            The invention relates to a novel pharmaceutical composition, which has a CC first active agent comprising an oligonucleotide antisense to the CC initiation codon, coding region, 5' or 3' end genomic flanking regions, CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of CC junctions of genes encoding a polypeptide associated with lung and/or CC nasal airway dysfunction and a second active agent comprising an CC antiinflammatory steroid and ubiquinone. A composition of the invention CC immunosuppressive, and cytostatic activity. The composition may have a CC immunosuppressive, and cytostatic activity. The composition may have a CC immunosuppressive, and cytostatic activity. The composition may have a CC for enhancing the prophylactic or the appendiction or condition, also CC for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of or reducing sensitivity to adenosine, reducing levels of adenosine composition genesitivity to adenosine, reducing levels of adenosine or condition, lung surfactant in a subject tissue, or treating bronchoconstriction, and subject in the prophylactic prophylactic
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; SEQ ID NO 4946; 872pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2003-229219/22.
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L, Shahabuddin
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Pred. No. 4.4e+02;
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Best Local 9
This invention relates to a novel method for detecting a nucleic acid having 2 portions. The method comprises providing nanoparticles having oligonucleotides attached, where the oligonucleotide on each nanoparticle has a sequence complementary to a sequence of 2 portions of nucleic acid. The nucleic acid and nanoparticle are contacted to allow hybridisation of the oligonucleotide on the nanoparticle with two or more portions of nucleic acid and observing a detectable with two or more portions of nucleic acid and observing a detectable change brought about by the hybridisation. The method of the invention is useful for separating a selected nucleic acid having 2 portions, from other nucleic acids, and for detecting nucleic acids having 2 portions. The method of the invention is useful for detecting any type of nucleic acids which may be used for diagnosis of disease and in sequencing of nucleic acids. Preferably, the method is useful for detecting nucleic acids for item of the control of the method is useful for detecting nucleic acids for acides the method is useful for detecting nucleic acids for the method is useful for detecting nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Detecting nucleic acids having 2 portions e.g. for detecting disease, comprises use of nanoparticles which have oligonucleotides attached them that are complementary to portions of the nucleic acid sequence.
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                                                                                                                                                                                                                                                                                                                                                                                                    Example 18; Page 44;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-228115/22
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29-JAN-1999;
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26-APR-2000;
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; 2000US-0200161P.
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Pred. No. 4.4e+02;
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Matches
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                                                                                           Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                     The present sequence is an example of nucleic acid probes of the invention. The probe may be doubly labelled with non-identical covalently attached dyes, e.g. the fluorescent intercalator ethidium, which serves as the detector dye and the fluorescent dye fluorescein, which serves as the donor dye of a fluorescent resonance energy transfer (FRET) system. A bifunctional linker was used to attach the dyes to the oligonucleotide. The probe generates a fluorescent signal upon hybridisation to a complementary nucleic acid based on the interaction of the intercalator with the formed double-stranded DNA. Nucleic acid probes of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 virus, hepatitis virus, herpes virus, cytomegalovirus and Epstein-Barr virus), bacterial diseases, sexually transmitted diseases, inherited diseases, in forensics, in DNA sequencing, for paternity testing, for cell line authentication, for monitoring gene therapy, etc. This method involves detecting nucleic acids based on observing a colour change with the naked eye so is cheap, fast, simple and robust, and does not require specialised expensive equipment. The present sequence represents a thiol specialised expensive equipment.
                                                                                                                                                                                                                                                                                       can be used in homogeneous assays, real-time PCR monitoring, transcription assays, expression analysis on nucleic acid microarrays other microarray applications such as genotyping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Detection or quantification of nucleic acid analyte, by hybridizing nucleic acid probe having non-identical covalently attached dyes, was nucleic acid analyte, and measuring change in fluorescence of the property of the pr
                                                                                                                                                                                                Sequence
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Query Match Best Local Similarity

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Score Pred.

14.8; DB 1; No. 4.4e+02;

Length 20;

Sequence 20 BP; 0 A; 0 C; 0 G; 20 T; 0 U; 0 Other;

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                                                  The present invention describes a method (M1) for preparing an CC cinternucleotide phosphorothicate linkage enriched in the Sp or Rp CC enantiomer between a synthon having a hydroxyl moiety at the 5' position CC and a 2'-substituted nucleoside having an activated phosphate moiety at the 3'-position, comprising coupling synthon with a 2'-substituted comprising coupling a synthon with a 2'-substituted comprise of coupling a synthon with a 2'-substituted coupling an activated phosphate moiety at the still for preparing an oligonucleotide having at least one region of coupling the synthon with a 2'-substituted for greating an oligonucleotide having at least one region of coupling the presence of coupling a hydroxyl moiety at the 5'-coupling the providing a nucleotide having a hydroxyl moiety at the 5'-position or a growing oligonucleotide chain having a hydroxyl moiety at the 5'-position, coupling the nucleotide or growing oligonucleotide chain the growing aligonucleotide chain having a position in the presence of the coupling step until the desired number of linkages is established. The coupling step until the desired number of linkages that is consistent in the Sp enantiomer is further processed to include another coupling step until the desired number of linkages that is consistent in the Sp enantiomer. Oligonucleotide prepared by the method lead to improved coupling, diagnostics and research reagents. The present sequence represents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Preparing internucleotide phosphorothicate linkage enhanced in Sp/Rp enantiomer, by coupling a synthon with 2'-substituted nucleoside in presence of coupling agent having a pKa that enhances linkage in Sp/Rp
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                                       oligonucleotide used in the exemplification
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                                                        CC omprising oligonuclectides, effective for alleviating comprising oligonuclectides, effective for alleviating comprising oligonuclectides, effective for alleviating composition, respiratory tract inflammation, allergies and creducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, cc surfactant depletion or hyposecretion, when administered to a mammal. The coligonuclectides are derived from a gene encoding or regulating cc expression of a target polypeptide associated with lung airway or lung cystenction or cancer and can be anti-sense to the corresponding mRNA. cc The invention also describes a kit, that comprises: (a) a delivery cc device, in separate containers, (b) the oligonuclectides, (c) instructions for adding a carrier and for use of the kit. The composition cof the invention has antiallergic, antiinflammatory, antiasthmatic, and beta-adrenergic agonist. The composition is useful for preventing or creature a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to creduce the amount of target polypeptide present in the lungs. The composition and is easient in the lungs. The composition and is easient of the target mRNA or to creduce the amount of target polypeptide present in the lungs. The composition and is easient of the target mRNA or to creduce the amount of target polypeptide present in the lungs. The composition and is easient and or manaly a larget and or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human, antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 15; SEQ ID NO 3509; 763pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2003-093058/08.
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Tang L,
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   allergies, asthma, impeded respiration, respir
rome, pain, cystic fibrosis, allergic rhinitis,
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,, Shahabuddin
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   pulmonary
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nyce JW,
Miller S
surfactant depletion or hyposecretion, when administered to a mammal. oligonucleotides are derived from a gene encoding or regulating expression of a target polypeptide associated with lung airway or lung dysfunction or cancer and can be anti-sense to the corresponding mRNA. The invention also describes a kit, that comprises: (a) a delivery device, in separate containers, (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antisethmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis; pulmonary transplantation rejection; ss; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            transplantation rejection, pulmonary infections, bronchitts or cancer. The reduced adenosine content of the anti-sense oligos corresponding to thymidines present in the target RNA serves to prevent the breakdown of the oligonucleotides into products that free adenosine into the system e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to
                                                                                                                                                                                                                       bronchoconstriction, respiratory tract inflammation, allergies and reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors.
                                                                                                                                                                                                                                                                                    This invention describes a novel composition (a) a first active comprising oligonucleotides, effective for alleviating
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and
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                                                                                                     Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targ nucleic acids associated with lung airway or lung dysfunction
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               pulmonary transplantation rejection;
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, Tang L,
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L, Shahabuddin
                                                                                                                                                                                                                                                                                                                                                                                                                                                             PHARM INC
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Pred. No. 4
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bronchodilating

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NO 4327;

763pp; English

24-APR-2001; 2001US-0286036P

EPIGENESIS

PHARM INC

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This invention describes a novel composition (a) a first active agent, comprising oligonucleotides, effective for alleviating bronchoconstriction, respiratory tract inflammation, allergies and creducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, contractant depletion or hyposecretion, when administered to a mammal. The coligonucleotides are derived from a gene encoding or regulating continuous or a target polypeptide associated with lung airway or lung dysfunction or cancer and can be anti-sense to the corresponding mRNA. The invention also describes a kit, that comprises: (a) a delivery constructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, is a beta-adrenergic agonist. The composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the amount of target polypeptide present in the lungs. The composition comprises oligo and is administered to reduce the amount of target polypeptide present in the lungs. The composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The composition comprises and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction, condors the compositation, respiratory transplantation, regiratory polyperide respiration, respiratory transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to the oligonucleotides into products that free adenosine into the system content of the anti-sense oligos corresponding to the oligonucleotides into products that free adenosine into the system content and thereby, to prevent any unwanted effects due to it
ABD25316
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                               Human, antisense, bronchoconstriction, allergy, hyposecretion, pain, respiratory tract inflammation, adenosine sensitivity, lung, cancer, surfactant depletion, antiallergic, antiinflammatory, antiasthmatic, surfactant depletion, antiallergic, antiinflammatory, antiasthmatic, analgesic, hypotensive; immunosuppressive, cytostatic, cystic fibrosis, but allergic, the control of the cytostatic, cystic fibrosis, analgesic, hypotensive; immunosuppressive, cytostatic, cystic fibrosis, analgesic, hypotensive;
                                                                                                                                                                                                                                                                                   beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
                                                                                                                                  31-OCT-2002.
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Best Local :
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Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis; pulmonary transplantation rejection; ss; primer.
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Miller S,
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L, Shahabuddin
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Pred. No. 4.
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Best Local
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Miller
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AI051839-derived 29-JUL-2004

oligonucleotide SEQ ID 4258

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CC expression of a target polypeptide associated with lung airway or lung conversion or cancer and can be anti-sense to the corresponding mRNA. CC The invention also describes a kit, that comprises: (a) a delivery construction or cancer and can be anti-sense to the corresponding mRNA. CC The invention also describes a kit, that comprises: (a) a delivery constructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, conformation are sepiratory, lung or malignant disease. The administered construction of treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to conduce the amount of target polypeptide present in the lungs. The composition control of target polypeptide present in the lungs. The conformary obstruction, and/or bronchoconstriction and/or lung conflammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction, conformation, allergies, asthma, impeded respiration, respiratory conditions but any pulmonary disease, pulmonary transplantation referction, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to the oligonary brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This invention describes a novel composition (a) a first active agent, comprising oligonucleotides, effective for alleviating bronchoconstriction, respiratory tract inflammation, allergies and reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, surfactant depletion or hyposecretion, when administered to a mammal. The oligonucleotides are derived from a gene encoding or regulating
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Sequence
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G; 0 T; 0 U;
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Query Match Best Local S Matches 16

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Score 14.8; Pred. No. 4

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DB 1; Length 20;

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This invention describes a novel composition (a) a first active agent, comprising oligonucleotides, effective for alleviating comprising oligonucleotides, effective for alleviating composition, respiratory tract inflammation, allergies and creducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, surfactant depletion or hyposecretion, when administered to a mammal. The coligonucleotides are derived from a gene encoding or regulating comprises on of a target polypeptide associated with lung airway or lung composition or cancer and can be anti-sense to the corresponding mRNA. The invention also describes a kit, that comprises: (a) a delivery composition of the invention has antiallergic, antialfammatory, antiasthmatic, and the invention has antiallergic, antialfammatory, antiasthmatic, and beta-adrenergic agonist. The composition is useful for preventing or compassition comprises oligo and is administered to reduce the amount of target polypeptide present in the lungs. The composition comprises oligo and is administered to reduce the production of reduce the amount of target polypeptide present in the lungs. The composition comprises oligo and is administered to reduce the production of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The composition and is administered to reduce the production and is such as pulmonary vasoconstriction are associated with a disease or condition such as pulmonary vasoconstriction, respiratory conditions, cystic fibrosis, allergic rhinitis, pulmonary bulmonary pulmonary, chronic obstructive pulmonary disease, pulmonary
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Miller S,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim
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This invention describes a novel composition (a) a first active agent, comprising oligonuclectides, effective for alleviating bronchoconstriction, respiratory tract inflammation, allergies and reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, surfactant depletion or hyposecretion, when administered to a mammal. The oligonuclectides are derived from a gene encoding or regulating expression of a target polypeptide associated with lung airway or lung dysfunction or cancer and can be anti-sense to the corresponding mRNA. The invention also describes a kit, that comprises: (a) a delivery device, in separate containers, (b) the oligonuclectides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic,
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Miller S,
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ilarity 88.9%;
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L, Shahabuddin
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RESULT 742
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local
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Miller
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                                                                                                                                                                                                                                                                                                                                                                                             emphysema; chronic obstructive pulmonary disease; pulmonary transplantation rejection; ss; primer.
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Tang
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Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targuncleic acids associated with lung airway or lung dysfunction

f adenosine, targe
lung dysfunction,

targeted to

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RESULT 743
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KW Human;
KW resgir
KW surfac
KW surfac
KW serfac
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;
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Pred. No. 4.4e+02;
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CC comprising oligonucleotides, effective for alleviating
CC producing adenosine sensitivity, levels of adenosine (A) or (A) receptors,
CC surfactant depletion or hyposecretion, when administered to a mammal. The
CC oligonucleotides are derived from a gene encoding or regulating
CC expression of a target polypeptide associated with lung airway or lung
CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.
CC The invention also describes a kit, that comprises: (a) a delivery
CC device, in separate containers, (b) the oligonucleotides, (c)
CC instructions for adding a carrier and for use of the kit. The composition
CC of the invention has antiallergic, antiinflammatory, antiasthmatic,
CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a
CC treating a respiratory, lung or malignant disease. The administered
CC composition comprises oligo and is administered to reduce the production
CC or availability, or to increase the degradation of the target mRNA or to
CC reduce the amount of target polypeptide present in the lungs. The
CC inflammation, allergies and/or bronchoconstriction and/or lung
CC inflammation, allergies, asthma, impeded respiration, respiratory
CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary
CC thymidines present in the target RNA serves to prevent the breakdown of
CC thymidines present in the target shape of the adenosine into the system
CC thymidines present in the target shape of the product and thereby, to
CC prevent any unwarted effects due to it
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Miller S,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 15; SEQ ID NO 3808; 763pp; English
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                                      any unwanted effects due to
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L, Shahabuddin
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G; 0
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to it
T; 0 U; 0 Other;
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밁 ঠ Query Match Best Local : Matches 1520 АЛАЛАЛАЛАЛАЛТЛАЛА 1537 \_ 16; Similarity 88. AAAAAAAAAAAAAAAA 18 1.1%; <u>,</u> Score 14.8; Pred. No. 4 Mismatches 4.4e+02; DB 1; Length 20 Indels ,; Gaps

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ABD25045
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                                                                                    pulmonary transplantation rejection; ss;
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                                                                                                                                                                         emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
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Homo

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RESULT 74
ABD25350
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C The invention also describes a kit, that comprises: (a) a delivery device, in separate containers, (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antinfilammatory, antiasthmatic, and beta-adrenergic agonist. The composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The composition substruction, and/or bypeptide present in the lungs. The composition substruction, and/or bypeptide present in the lungs. The composition substruction, and/or bypeptide present in the lungs. The composition such as pulmonary vasoconstriction and/or lung inflammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction.

CC inflammation, allergies, asthma, impeded respiration, respiratory composition, allergies, asthma, impeded respiration, respiratory composition, and pain, cystic fibrosis, allergic rhinitis, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to the oligonary brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it
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Best Local Similarity
Matches 16; Conser
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted nucleic acids associated with lung airway or lung dysfunction, and
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CC expression of a target polypeptide associated with lung airway or lung CC dysfunction or cancer and can be anti-sense to the corresponding mRNA. CC The invention also describes a kit, that comprises: (a) a delivery CC device, in separate containers, (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, CC analgesic, hypotensive, immunosuppressive and cytostatatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered CC composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to Cr reduce the amount of target polypeptide present in the lungs. The pulmonary obstruction, and/or bronchoconstriction and/or lung confilmmation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction.

CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to thymidines present in the target RNA serves to prevent the breakdown of the oligonucleotides into products that free adenosine into the system of the oligonucleotides into products that free adenosine into the system of the oligonucleotides into products that free adenosine into the system of the oligonucleotides into products that free adenosine into the system of the oligonucleotides into products that free adenosine into the system of the oligonucleotides into products that free adenosine into the system of the oligonucleotides and oligonucleotides into products that free adenosine into the system of the oligonucleotides and oligonucleotides into products that free adenosine into the system of the oligonucleotides of the oligonucleotides of the oligonucleotid
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CC comprising oligonuclectides, effective for alleviating composition, respiratory tract inflammation, allergies and creducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, comprises and certain adenosine sensitivity, levels of adenosine (A) receptors, comprises a deposition or hyposecretion, when administered to a mammal. The cligonuclectides are derived from a gene encoding or regulating compression of a target polypeptide associated with lung airway or lung compression of a target polypeptide associated with lung airway or lung compression of a target polypeptide associated with lung airway or lung compression of the corresponding mRNA. CC The invention also describes a kit, that comprises (a) a delivery compression of the invention as antiallergic, antiinflammatory, antiasthmatic, compression of the invention as antiallergic, antiinflammatory, antiasthmatic, composition compress oligo and is administered to reduce the production composition comprises oligo and is administered to reduce the production cor availability, or to increase the degradation of the target mRNA or to consociate the amount of target polypeptide present in the lungs. The composition such as gulmonary vasoconstriction are associated inflammation, allergies and/or surfactant hypoproduction are associated confinemation, allergies, asthma, impeded respiration, respiratory confirming co
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                       This invention describes a novel composition (a) a first active agent, comprising oligonucleotides, effective for alleviating bronchoconstriction, respiratory tract inflammation, allergies and reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, surfactant depletion or hyposecretion, when administered to a mammal. The oligonucleotides are derived from a gene encoding or regulating expression of a target polypeptide associated with lung airway or lung dysfunction or cancer and can be anti-sense to the corresponding mRNA. The invention also describes a kit, that comprises: (a) a delivery device, in separate containers, (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic,
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L, Shahabuddin
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                                                                                                                                                                                                                                                                                                                                                                                                4181; 763pp;
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No. 4
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RESULT 748
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ID ABD254
XX ABD254
AC ABD254
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KW respir
KW respir
KW empinya
KW betaa-ge
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
                                                                                                                              Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                                                          WPI; 2003-093058/08.
                                                                                                                                                                                                                                                                                                                                                                                                                          24-APR-2001; 2001US-0286036P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             23-APR-2002; 2002WO-US013143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 W0200285309-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     pulmonary transplantation rejection;
                                                                                                      bronchodilating agent.
                                                                                                                                                                                                                                                                                                                                                                      (EPIG-) EPIGENESIS PHARM INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAAAAAAAAAAAAAAA 18
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                                                                                                                                                                                                                                                                                     Li Y, Sa
, Tang L,
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L, Shahabuddin
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Pred. No. 4.4e+02
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                                                                                                                                                                                                                                                                                                                   Katz E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     88; primer.
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This invention describes a novel composition (a) a first active agent,

мусе лw,

Li Y,

Sandrasagra A,

Katz E,

Pabalan J,

Aguilar

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(EPIG-) EPIGENESIS PHARM INC.

Claim 15; SEQ ID NO 4483; 763pp; English

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CC bronchoconstriction, respiratory tract inflammation, allergies and creducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, (CC surfactant depletion or hyposecretion, when administered to a mammal. The CC oligonucleotides are derived from a gene encoding or regulating expression of a target polypeptide associated with lung airway or lung (CC dysfunction or cancer and can be anti-sense to the corresponding mRNA. CC The invention also describes a kit, that comprises: (a) a delivery (CC device, in separate containers, (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, (CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or creating a respiratory, lung or malignant disease. The administered (CC reduce the amount of target polypeptide present in the lungs. The (CC reduce the amount of target polypeptide present in the lungs. The (CC inflammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vascoconstriction are associated with a disease or condition such as pulmonary vascoconstriction are associated with a disease, chronic obstructive pulmonary disease, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary continues present in the target RNA serves to prevent the breakdown of the reduced adenosine content of the anti-sense oligos corresponding to the oligonachine into the system (CC content and unwanted effects due to it
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Best Local
                                                                                                                                                                                                                                                                                                                                      Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstrictions.
                                                                                                                                                                                                                                                        respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis; pulmonary transplantation rejection; ss; primer.
                                                                           24-APR-2001; 2001US-0286036P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20 BP; 20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         comprising oligonucleotides, effective for alleviating
                                                                                                                     23-APR-2002; 2002WO-US013143.
                                                                                                                                                                                                 WO200285309-A2
                                                                                                                                                                                                                                           Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AI122689-derived oligonucleotide SEQ ID 3807.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABD24795 standard; DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
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                                                                        Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hyportension; respiratory distress syndrome; allergic rhinitis; pulmonary hyportension;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targe nucleic acids associated with lung airway or lung dysfunction,
                                     emphysema; chronic obstructive pulmonary disease;
pulmonary transplantation rejection; ss; primer.
                                                                                                                                                                                                                              AA505075-derived oligonucleotide SEQ ID 4946.
                                                                                                                                                                                                                                                                            29-JUL-2004
                                                                                                                                                                                                                                                                                                                                                            ABD25934 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
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Pred. No. 4.
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ABD25935 standard;

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                                                                                                                                                                                                                CC comprising oligonucleotides, effective for alleviating comprising oligonucleotides, effective for alleviating control construction, respiratory tract inflammation, allergies and consumer of the plation or hyposecretion, when administered to a manmal. The oligonucleotides are derived from a gene encoding or regulating control cont
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Best Local
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Miller S,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 15; SEQ ID NO 4946; 763pp; English
                                                                                                                                                             Sequence 20
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L, Shahabuddin
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